

LIGHT-EMITTING DEVICE**Publication number:** JP2004095221**Publication date:** 2004-03-25**Inventor:** MURASE SEIICHIRO; FUJIWARA TAKENORI;
TOMINAGA TAKESHI**Applicant:** TORAY INDUSTRIES**Classification:****- International:** C07F9/53; H05B33/14; H05B33/22; C09K11/06;
C07F9/00; H05B33/14; H05B33/22; C09K11/06; (IPC1-
7): C09K11/06; H05B33/22; C07F9/53; H05B33/14**- european:****Application number:** JP20020251332 20020829**Priority number(s):** JP20020251332 20020829**Report a data error here****Abstract of JP2004095221****PROBLEM TO BE SOLVED:** To provide a light-emitting device with high thermal stability, low driving voltage, high luminous efficiency, and high color purity.**SOLUTION:** This light-emitting device has a luminescent material between an anode and a cathode and emits light with electric energy, and the device has a luminous layer containing at least a blue fluorescent aromatic amine compound and an organic thin film layer adjacent to the luminous layer, and an aromatic compound substituted with a phosphine oxide group is contained in the organic thin film layer.**COPYRIGHT:** (C)2004,JPO

Data supplied from the esp@cenet database - Worldwide

(19) 日本国特許庁(JP)

(12) 公開特許公報(A)

(11) 特許出願公開番号

特開2004-95221

(P2004-95221A)

(43) 公開日 平成16年3月25日(2004.3.25)

(51) Int. Cl.⁷

H05B 33/22
C07F 9/53
H05B 33/14
// C09K 11/06

F 1

H05B 33/22 B
C07F 9/53
H05B 33/14 B
C09K 11/06 620
C09K 11/06 625

テーマコード (参考)

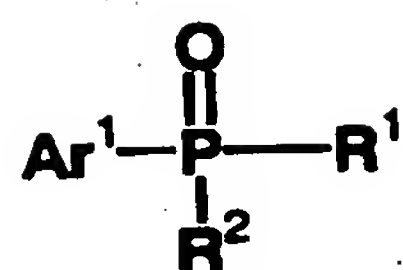
3K007
4H050

審査請求 未請求 請求項の数 5 O L (全 31 頁) 最終頁に続く

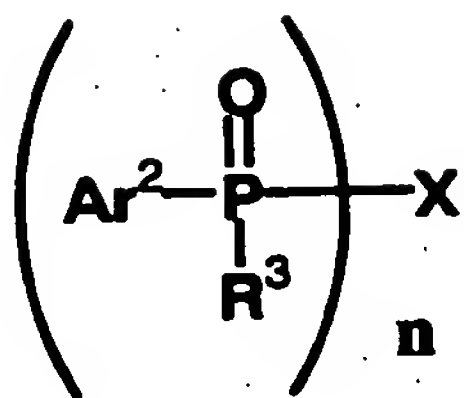
(21) 出願番号 特願2002-251332 (P2002-251332)
(22) 出願日 平成14年8月29日 (2002.8.29)

(71) 出願人 000003159
東レ株式会社
東京都中央区日本橋室町2丁目2番1号
(72) 発明者 村瀬 清一郎
滋賀県大津市園山1丁目1番1号 東レ株
式会社滋賀事業場内
(72) 発明者 藤原 健典
滋賀県大津市園山1丁目1番1号 東レ株
式会社滋賀事業場内
(72) 発明者 富永 剛
滋賀県大津市園山1丁目1番1号 東レ株
式会社滋賀事業場内
Fターム(参考) 3K007 AB03 AB04 AB06 AB11 AB14
BA06 DB03
4H050 AA01 AB92

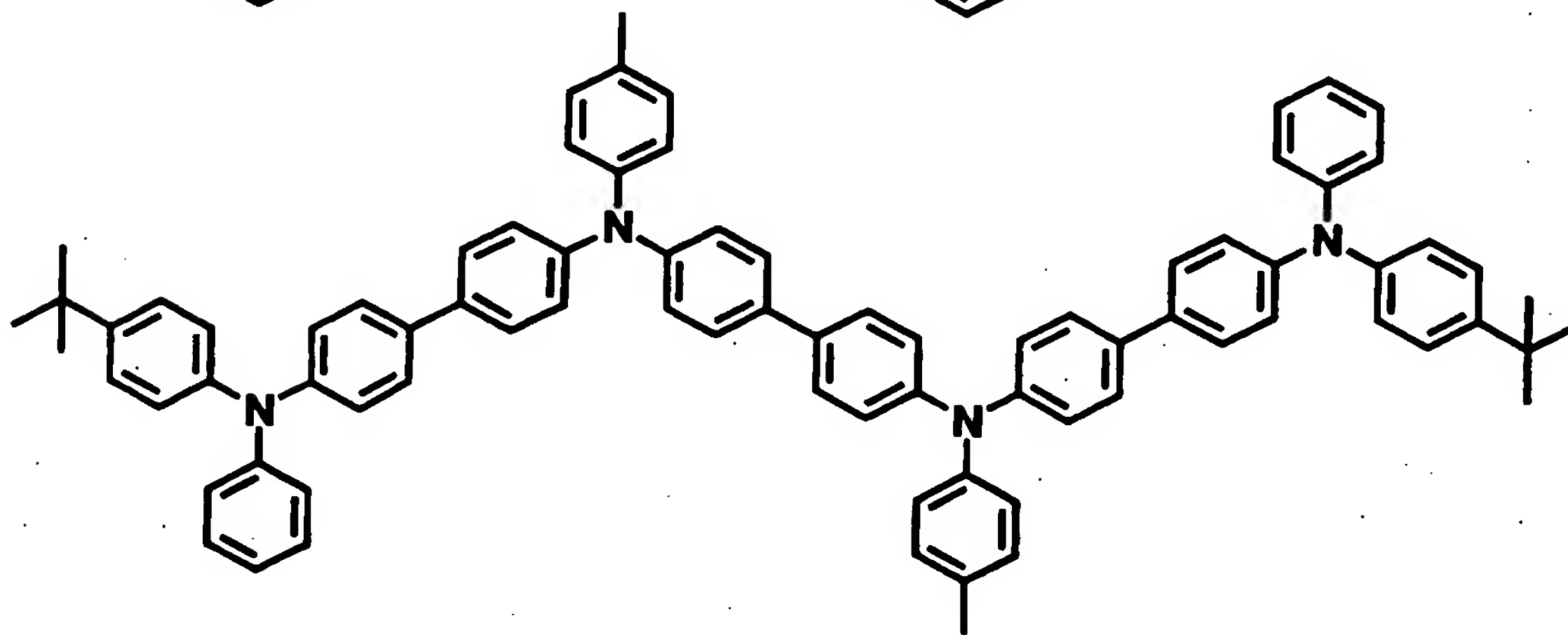
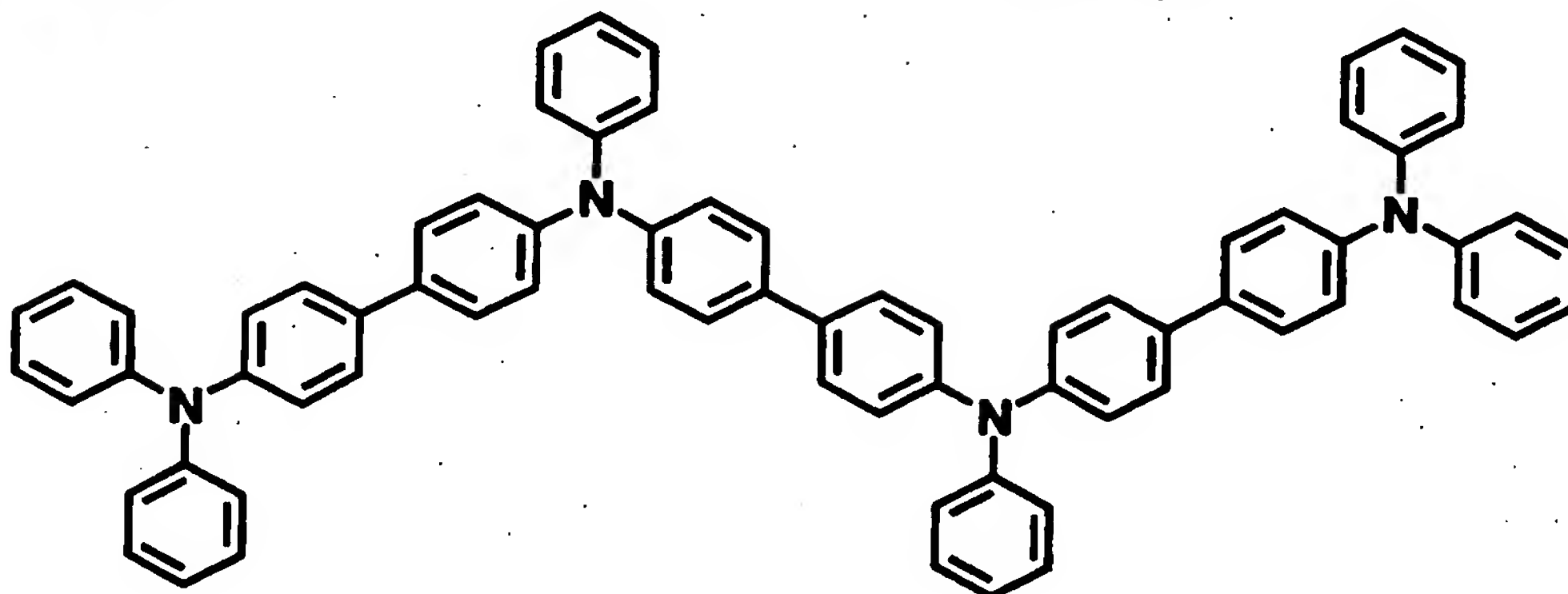
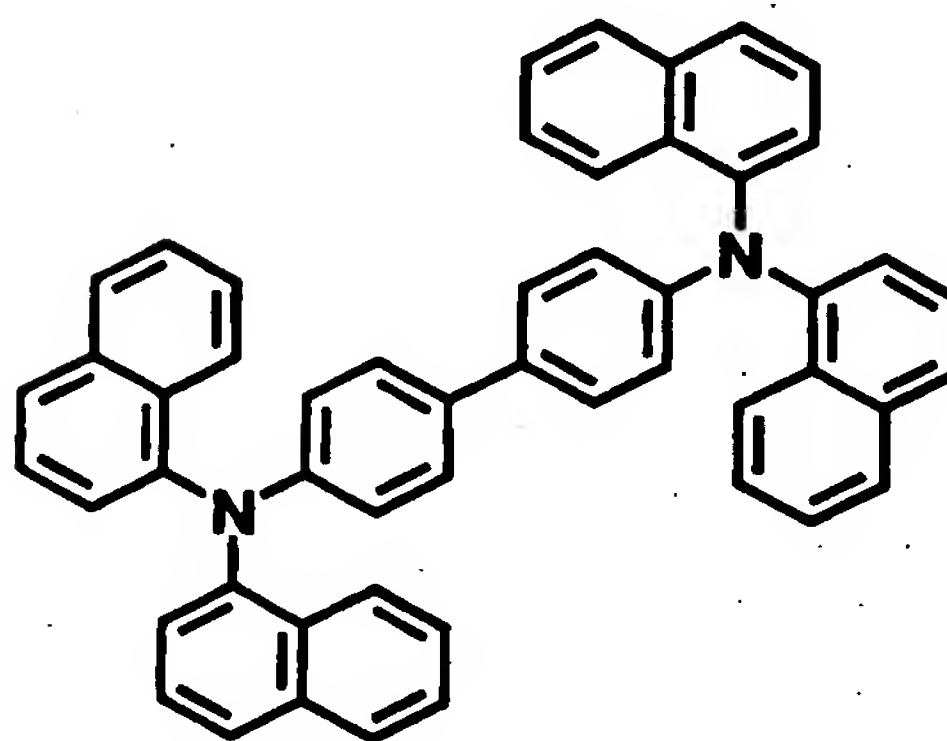
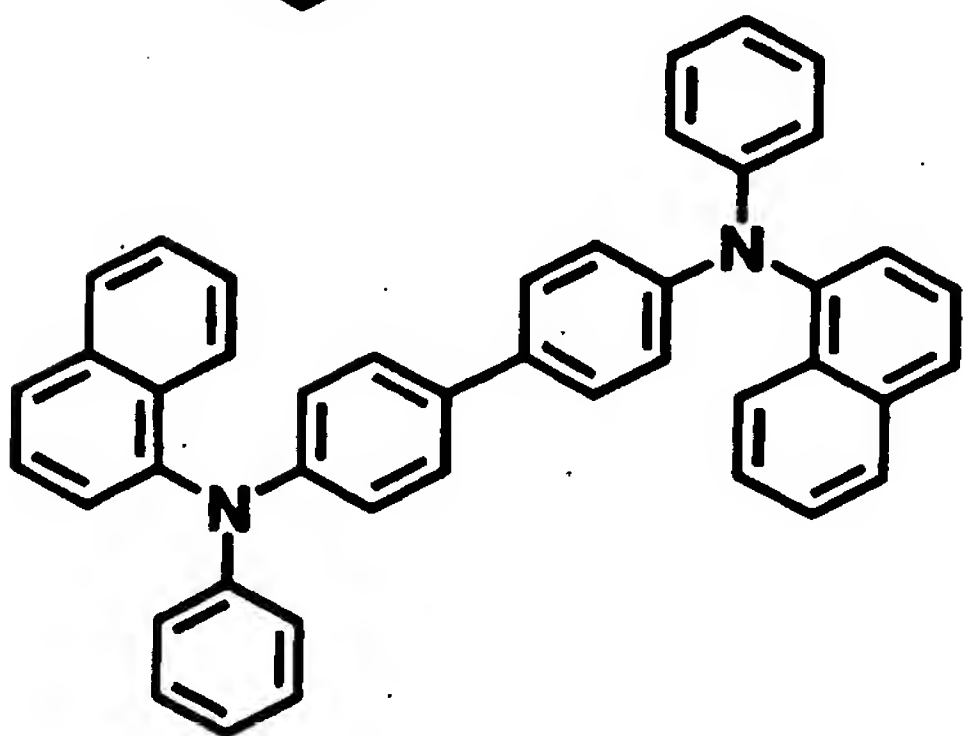
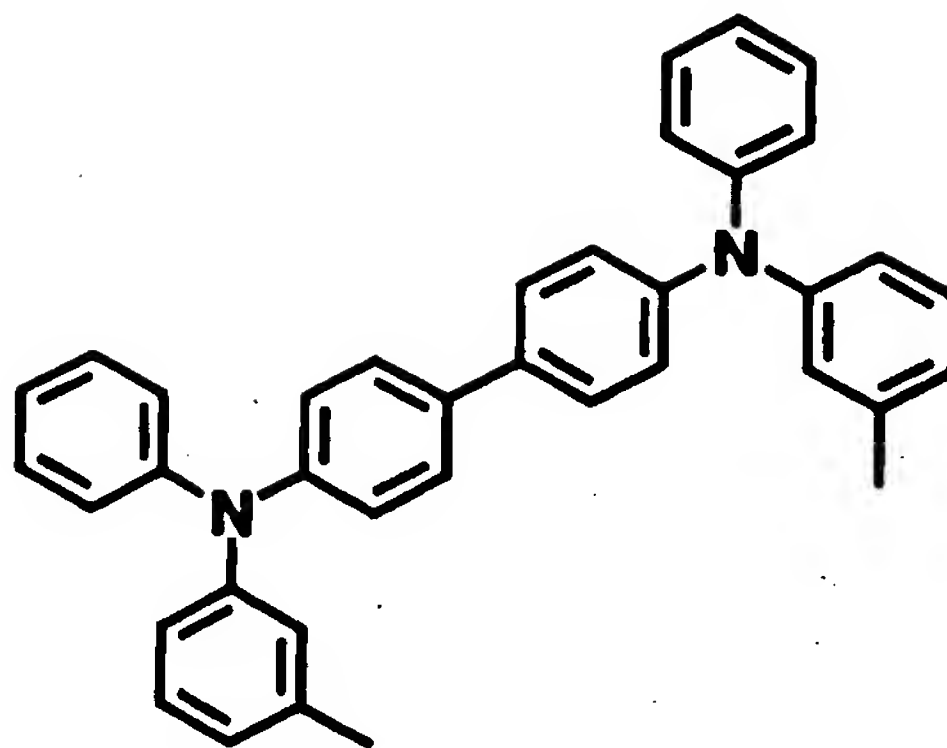
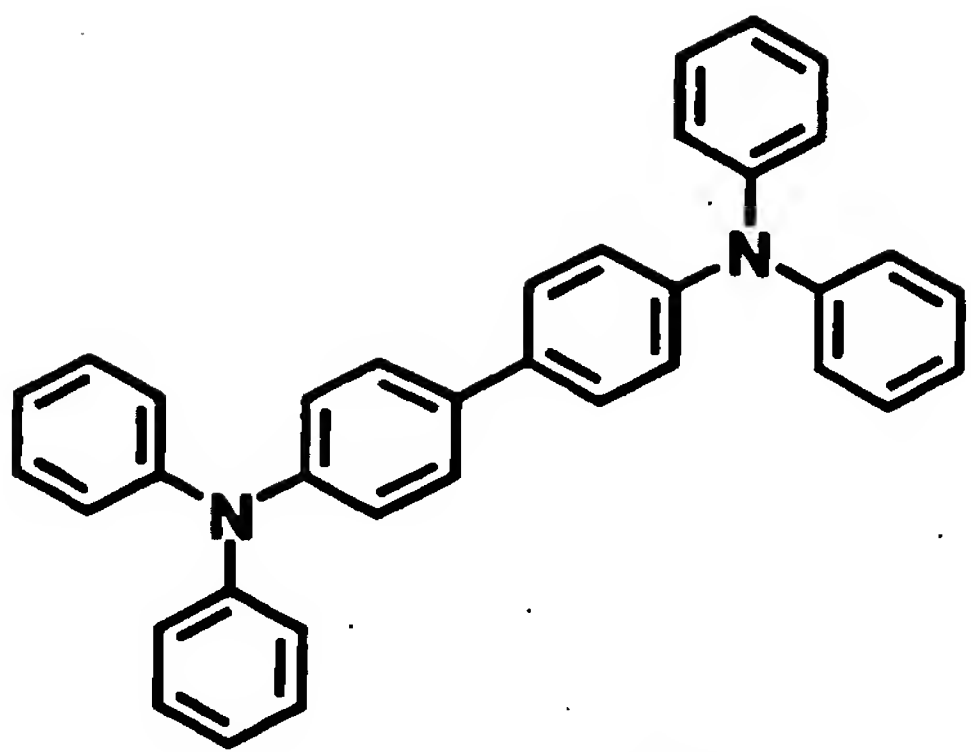
(54) 【発明の名称】 発光素子

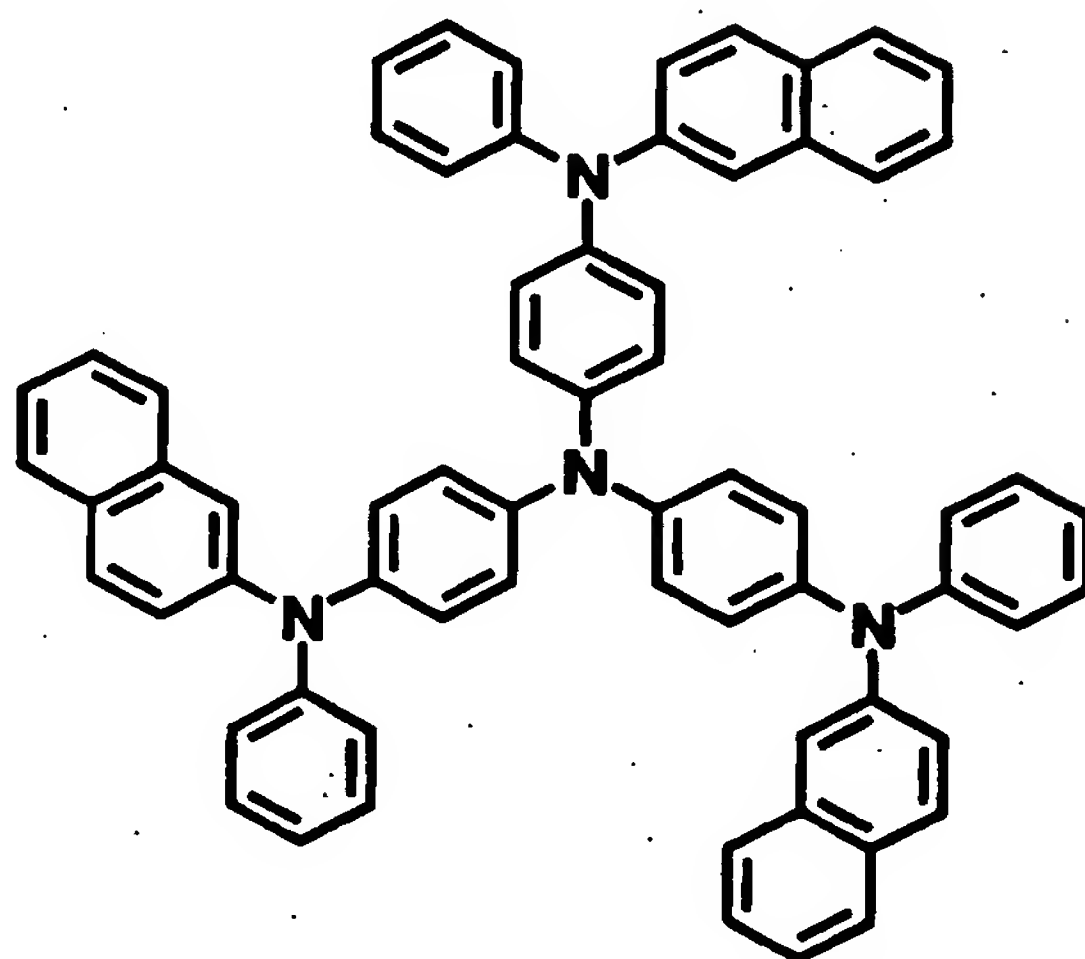
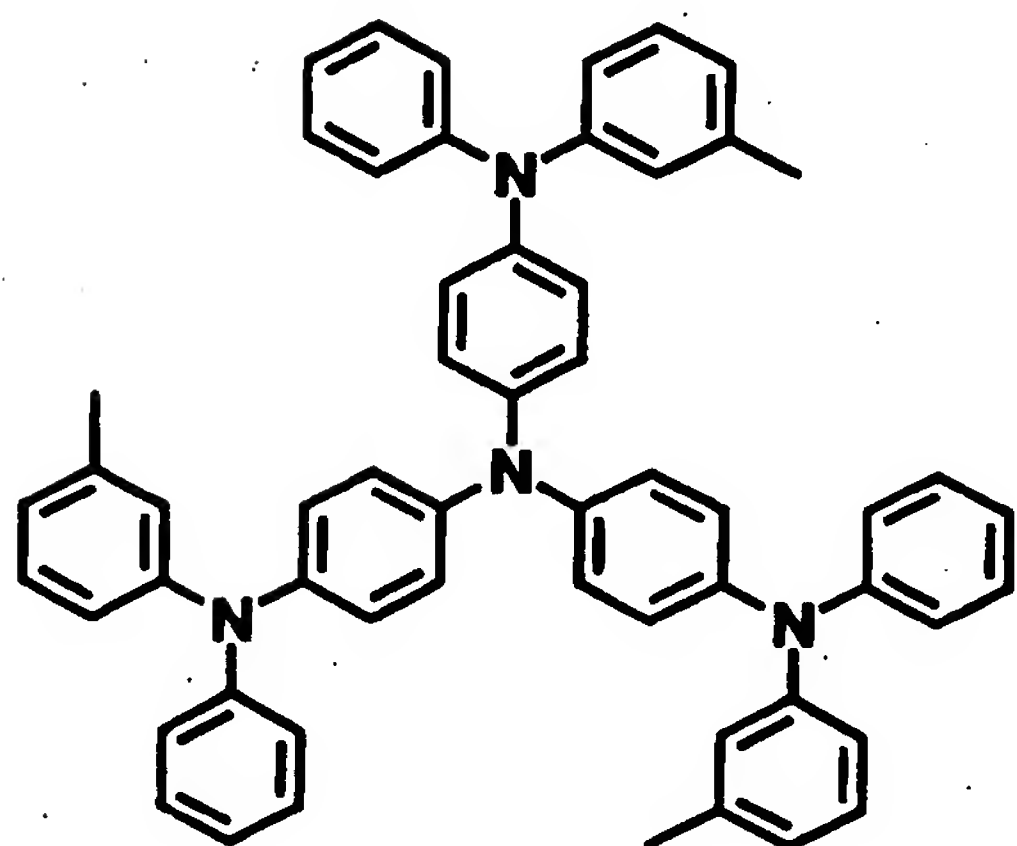
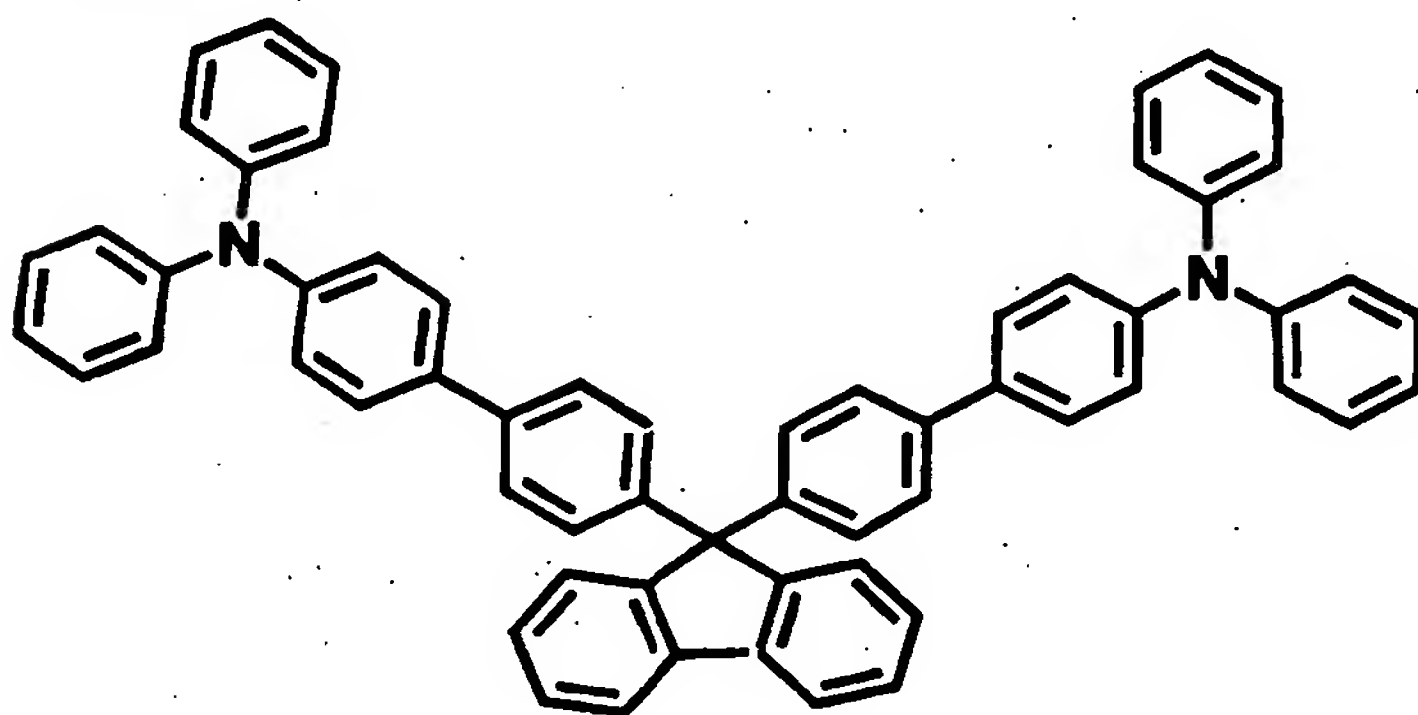
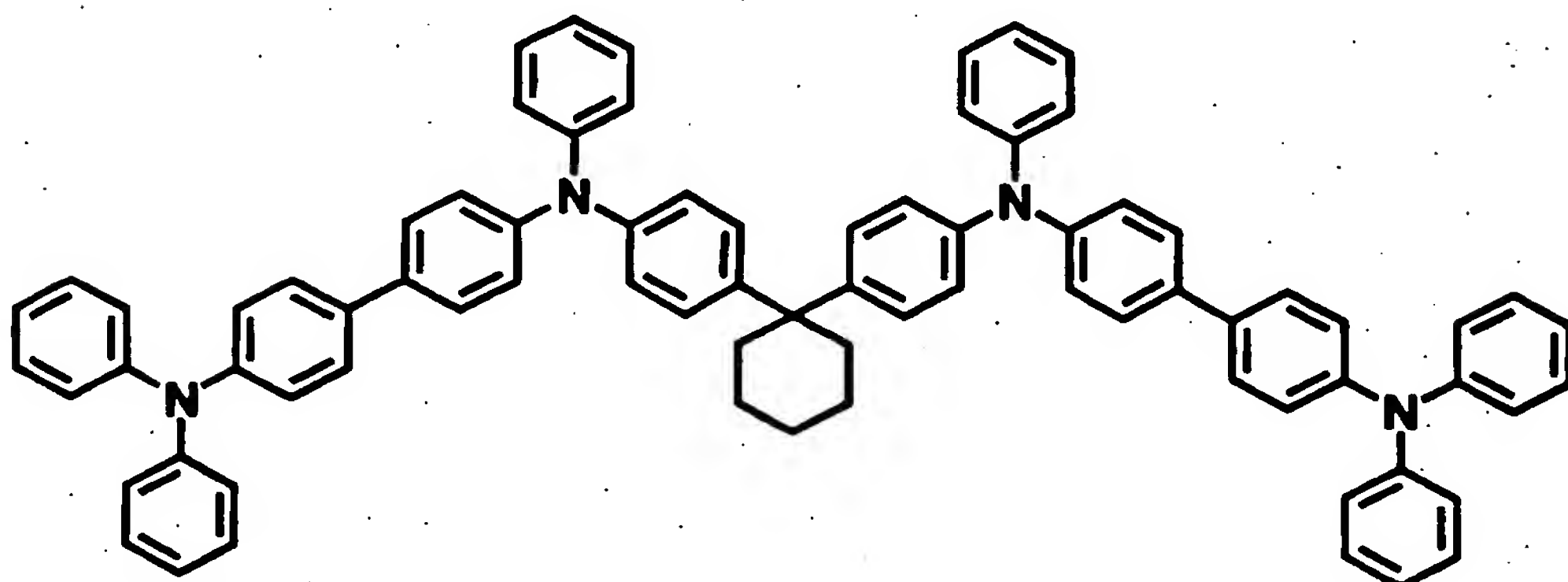
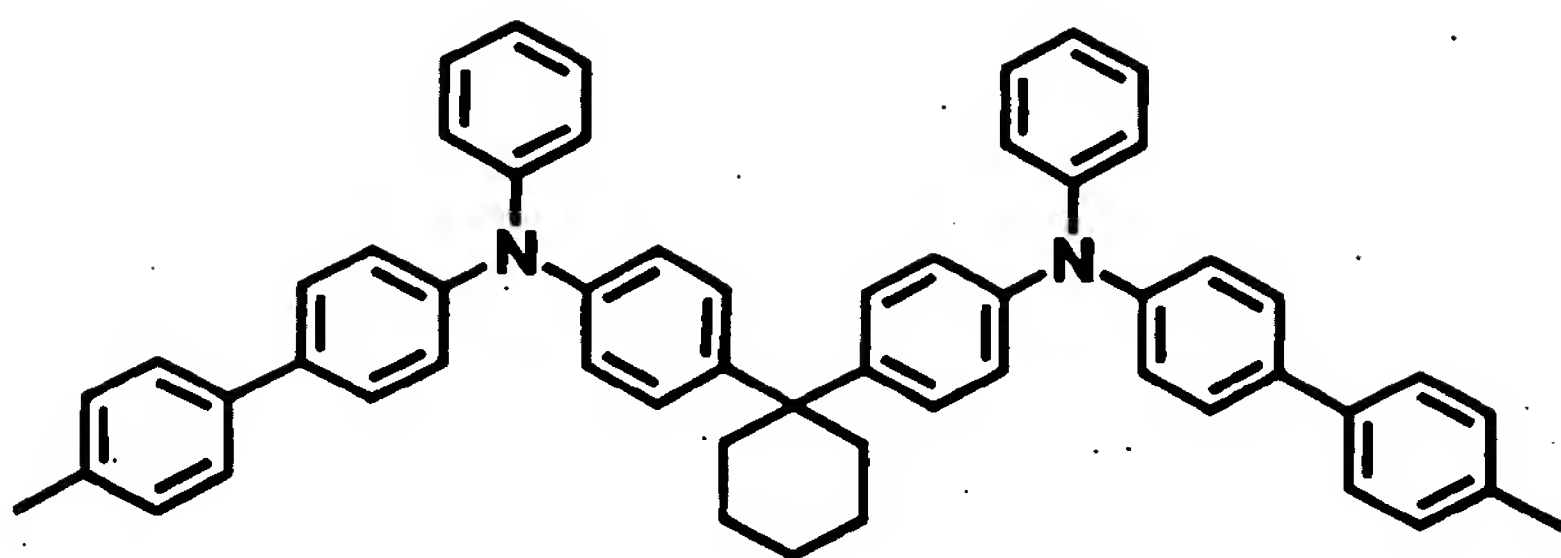


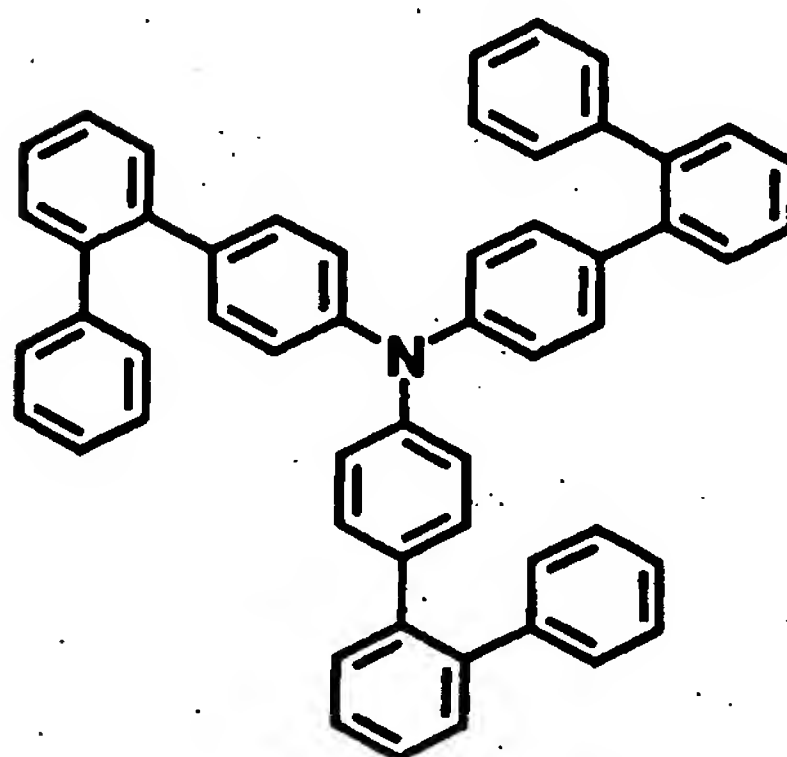
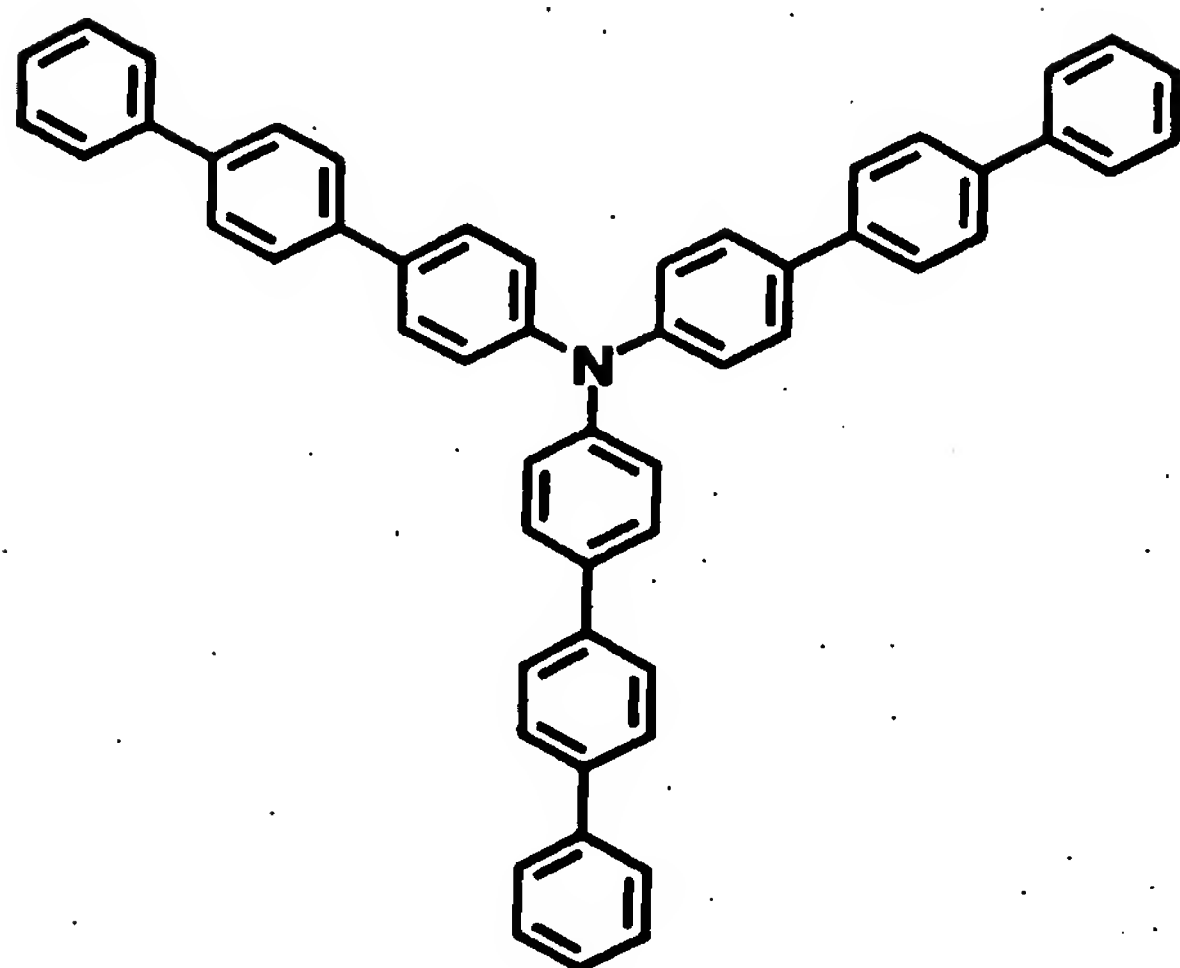
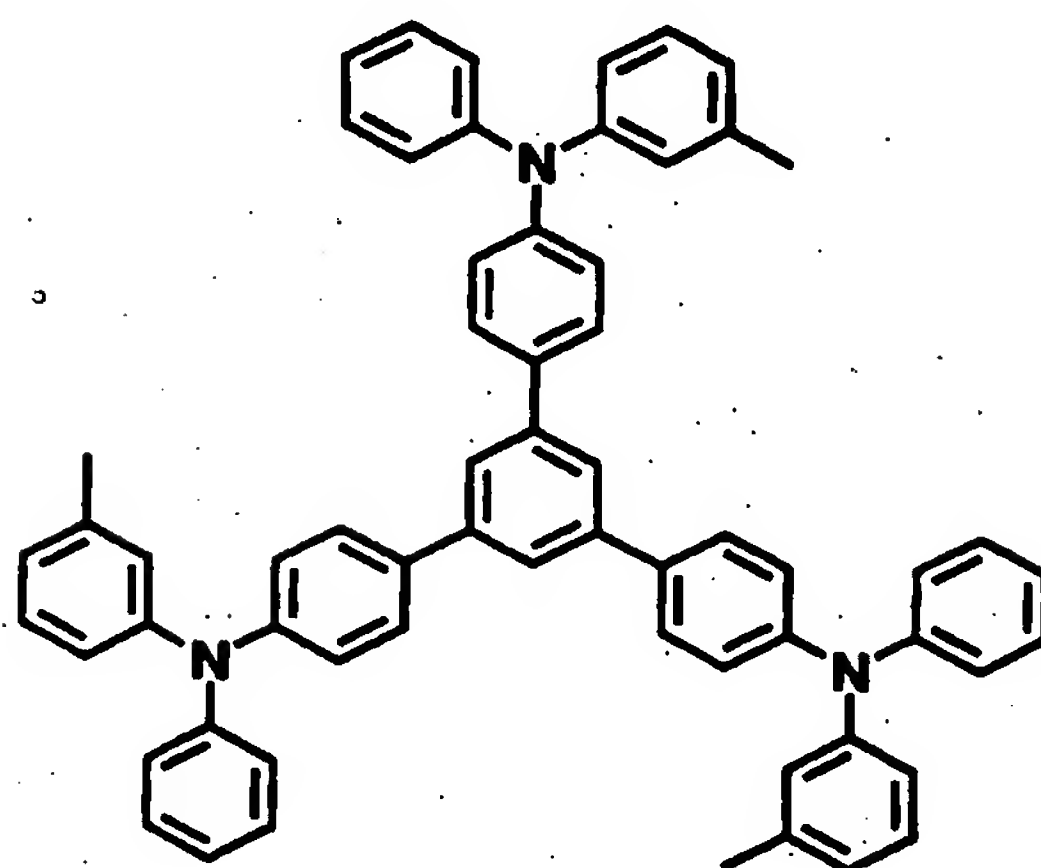
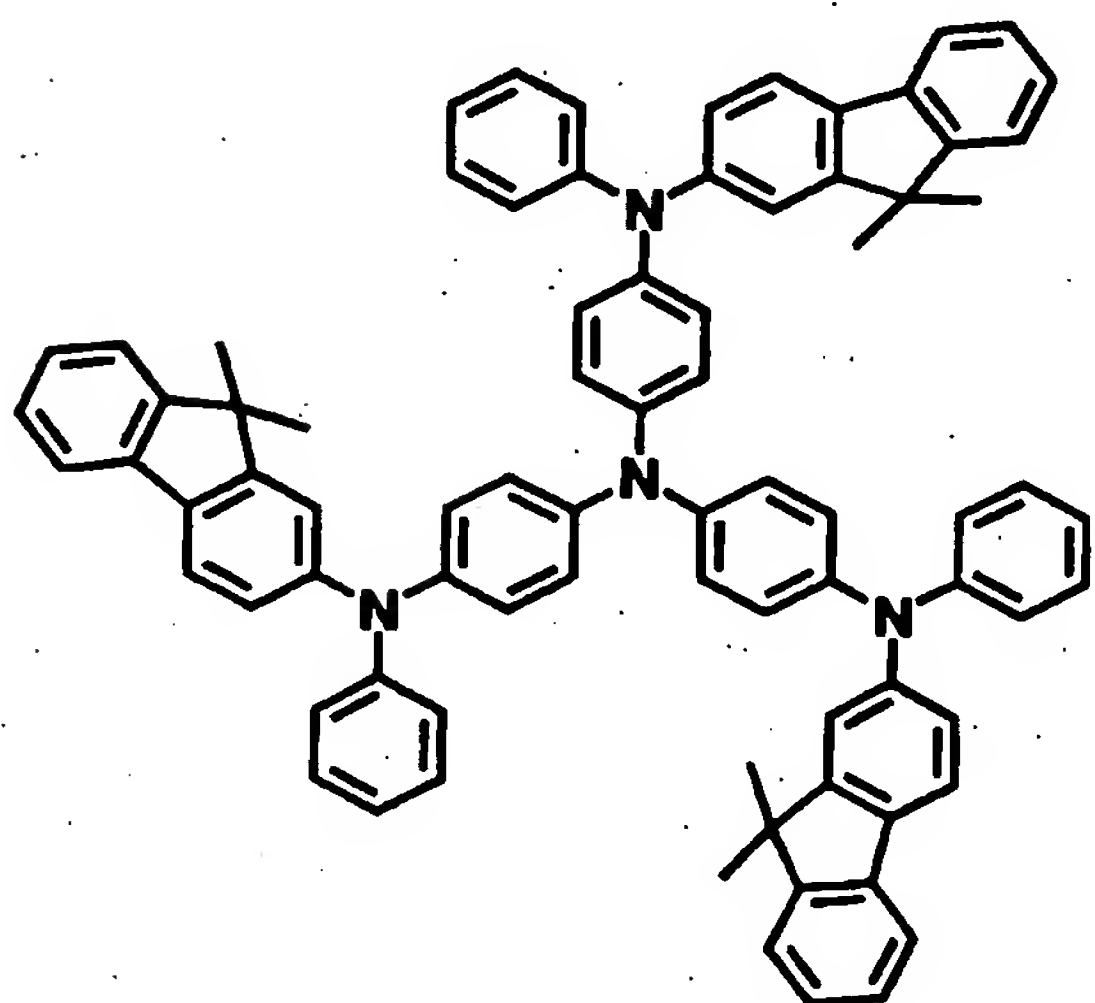
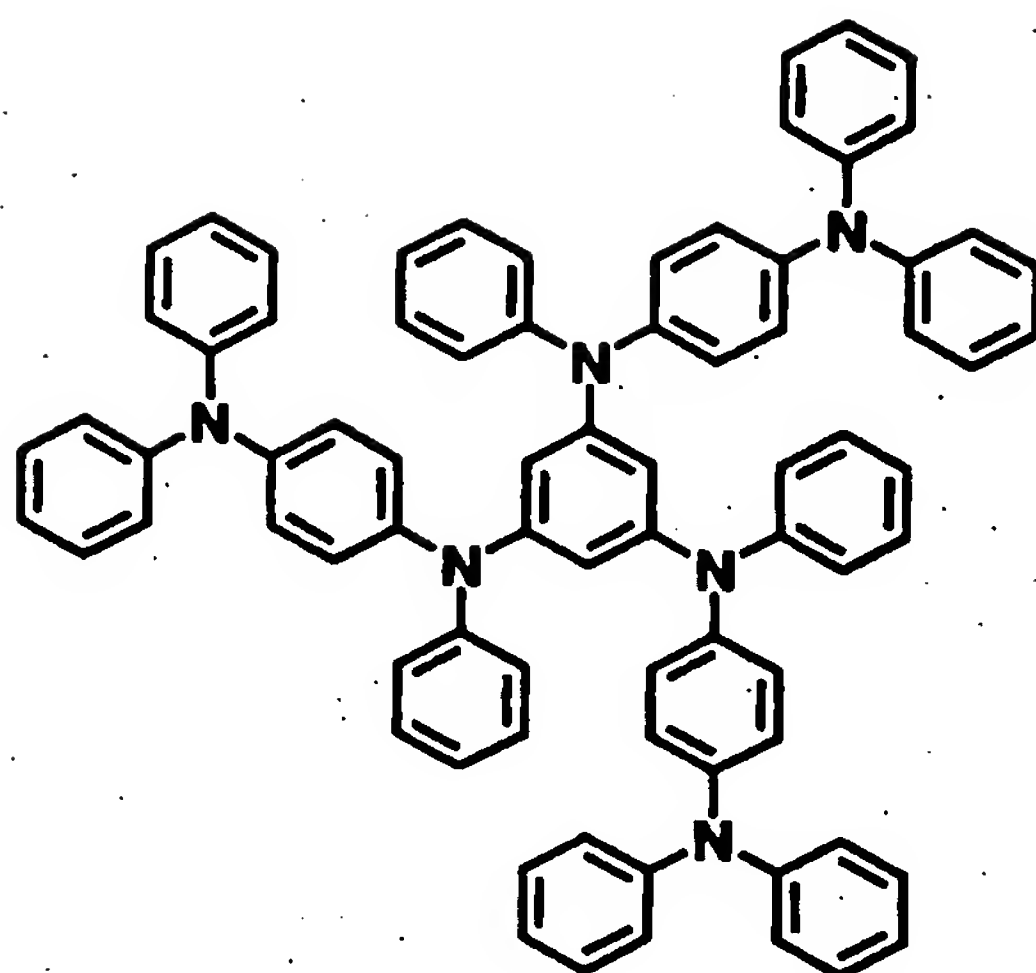
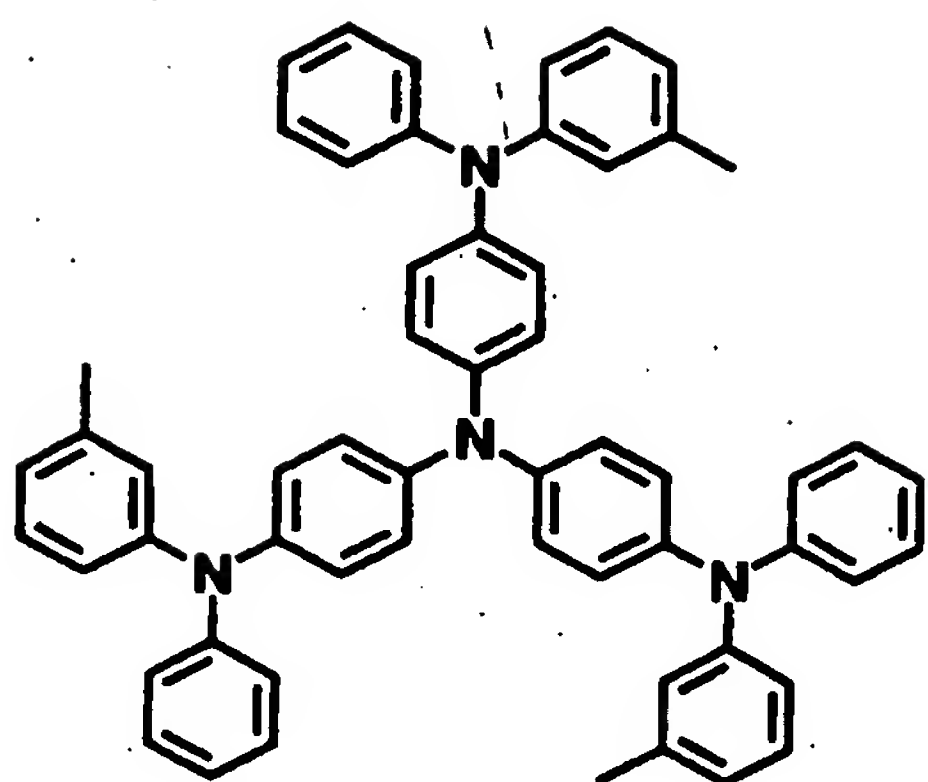
(1)

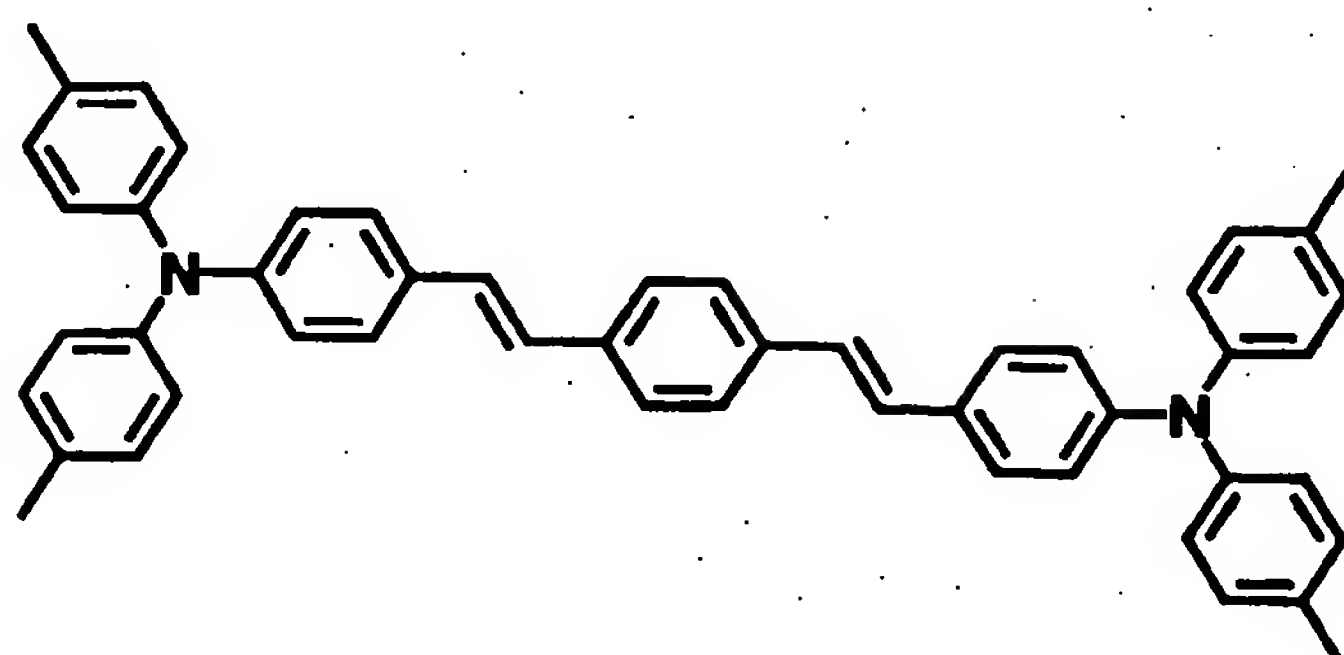
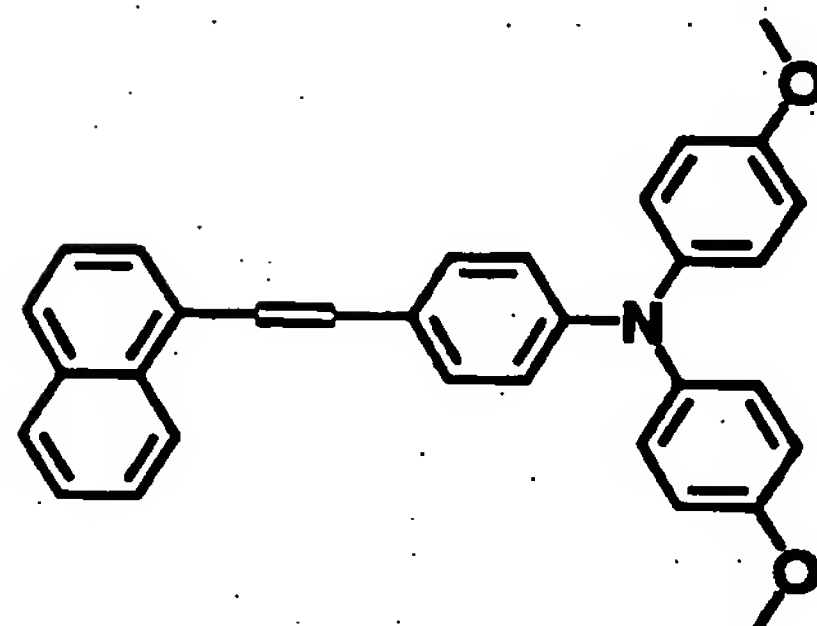
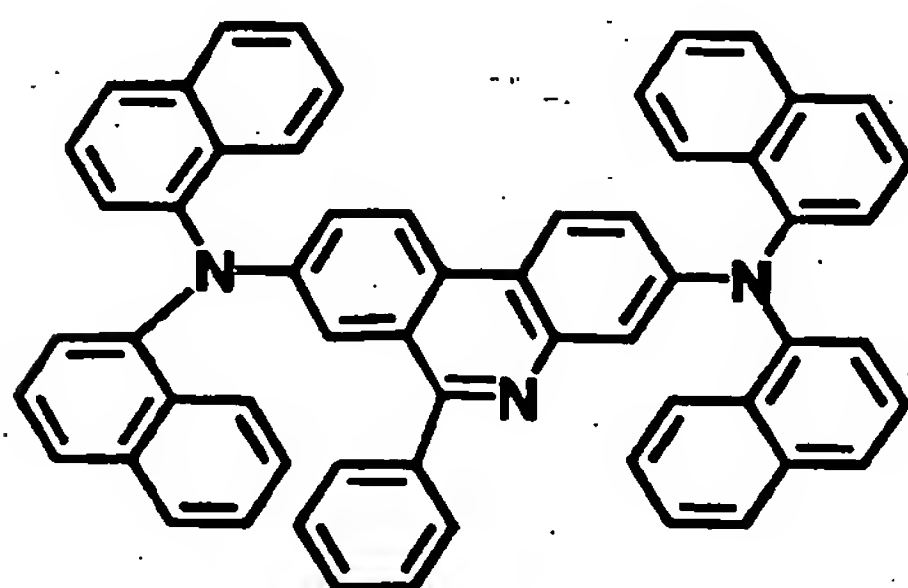
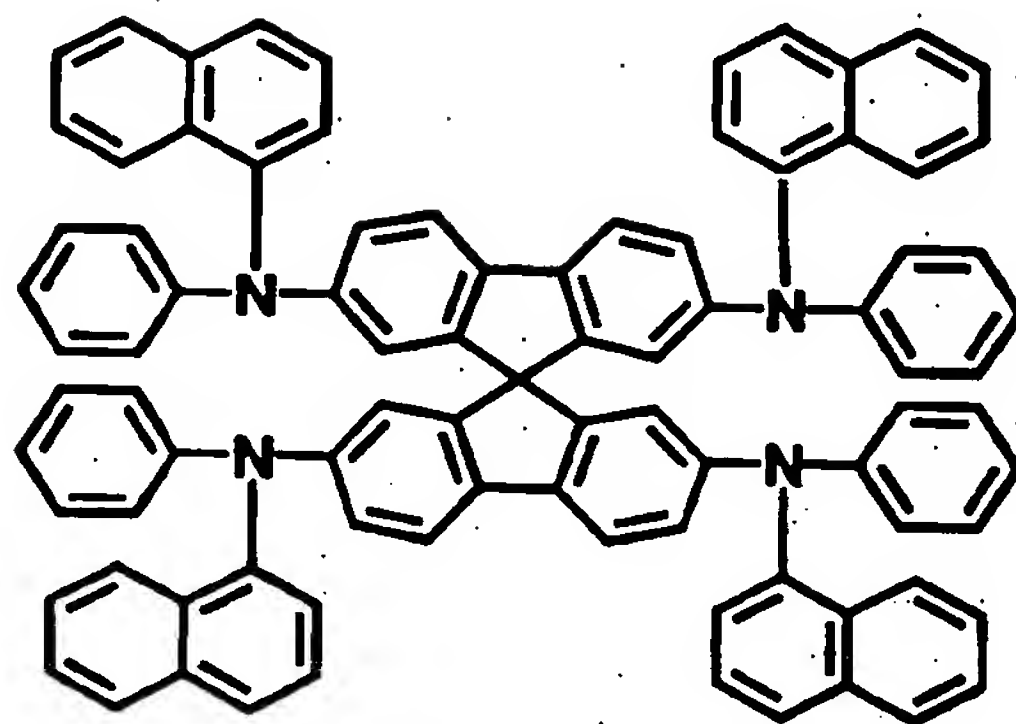
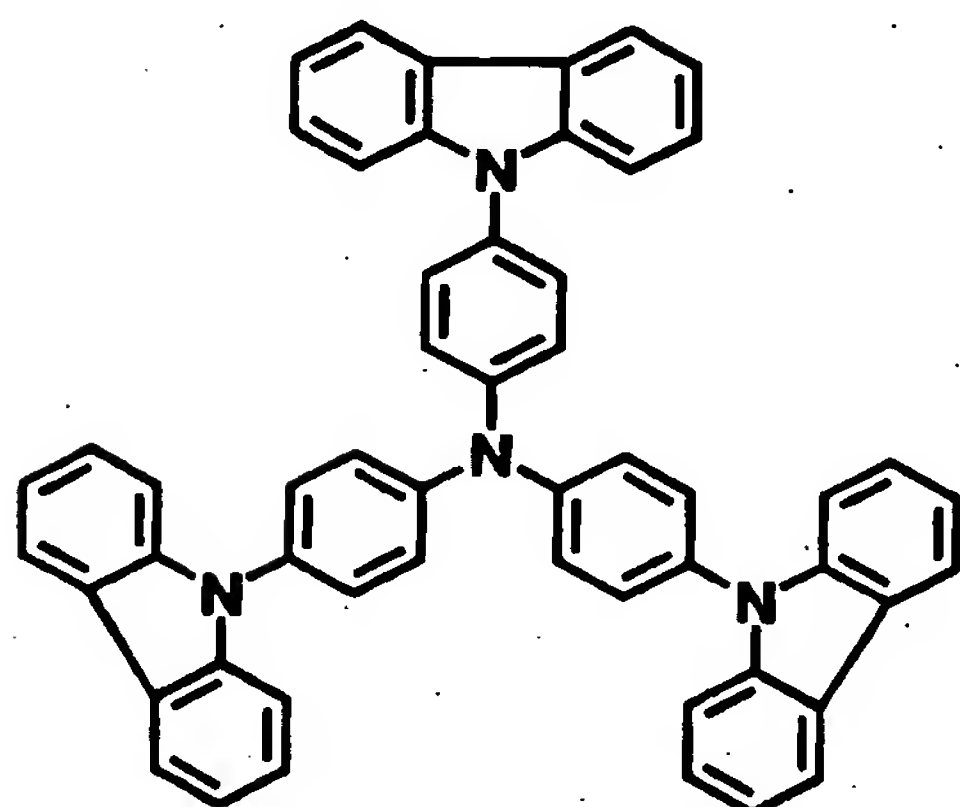
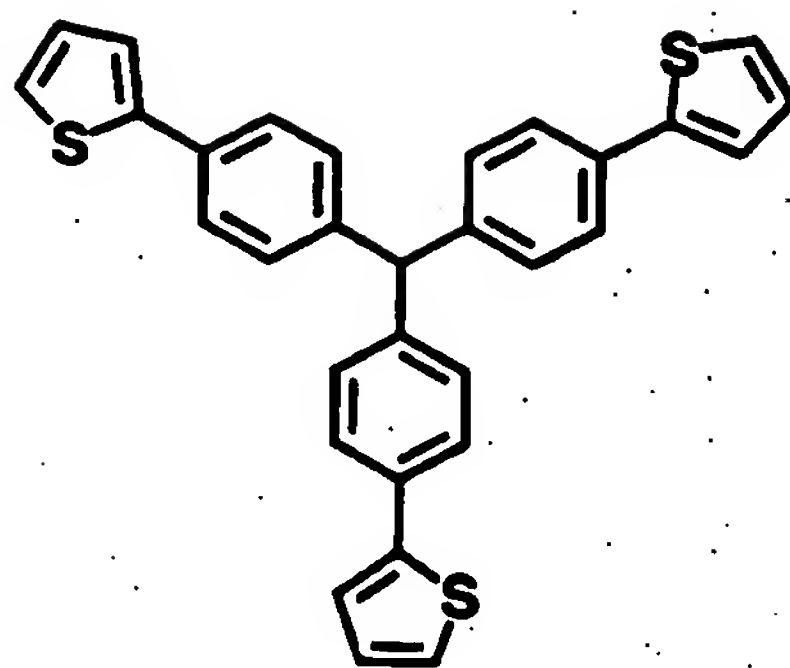
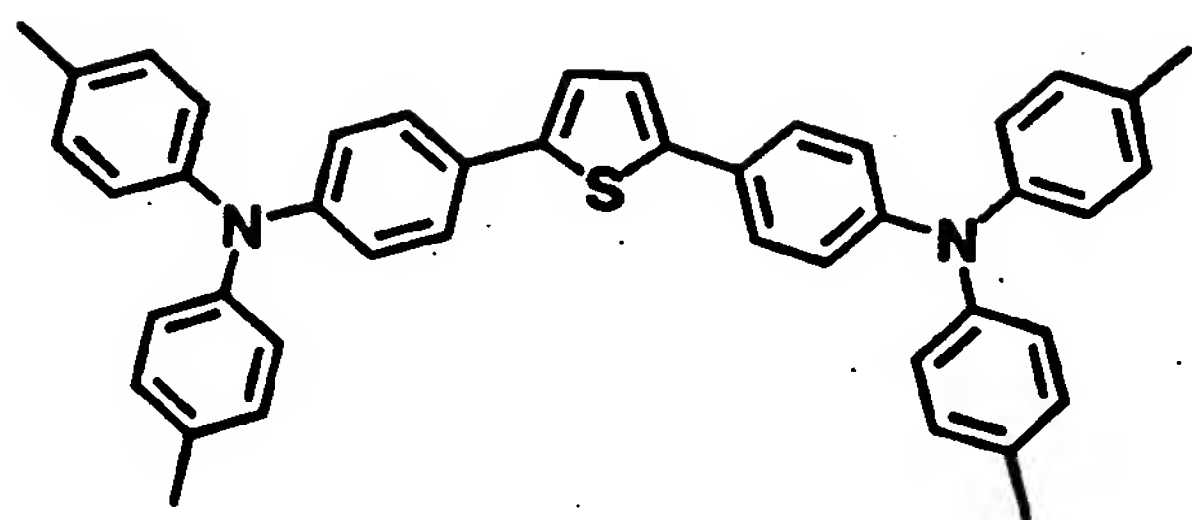


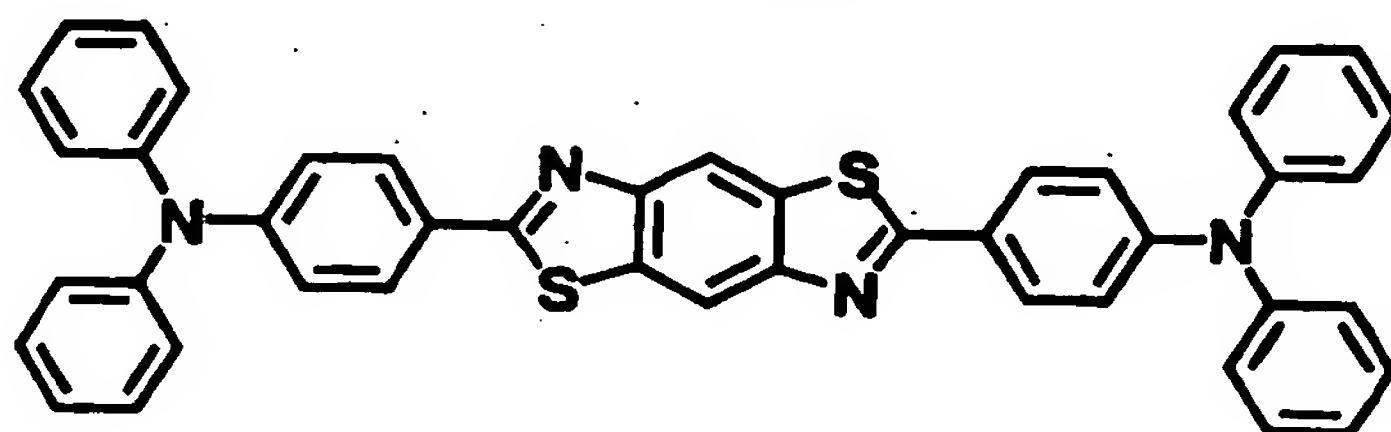
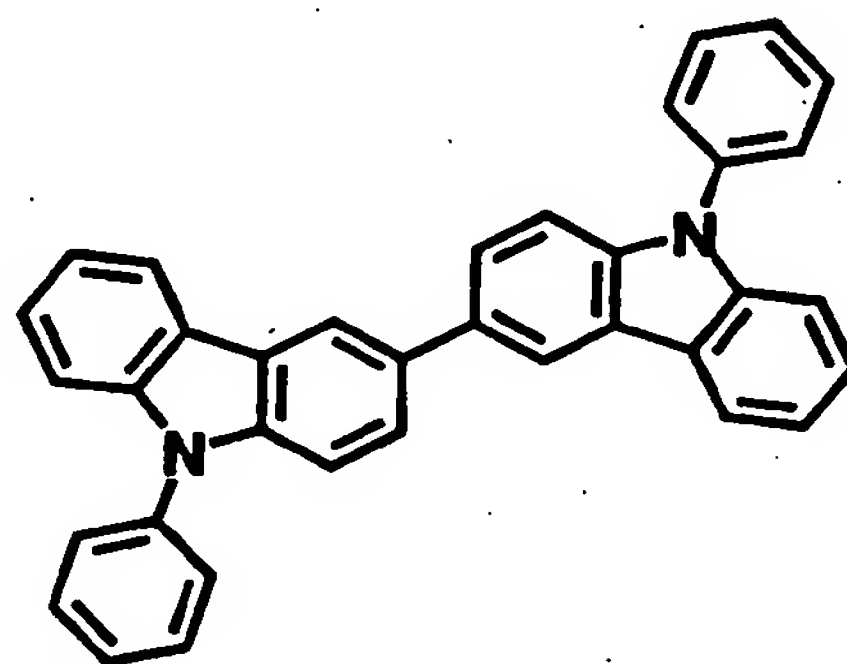
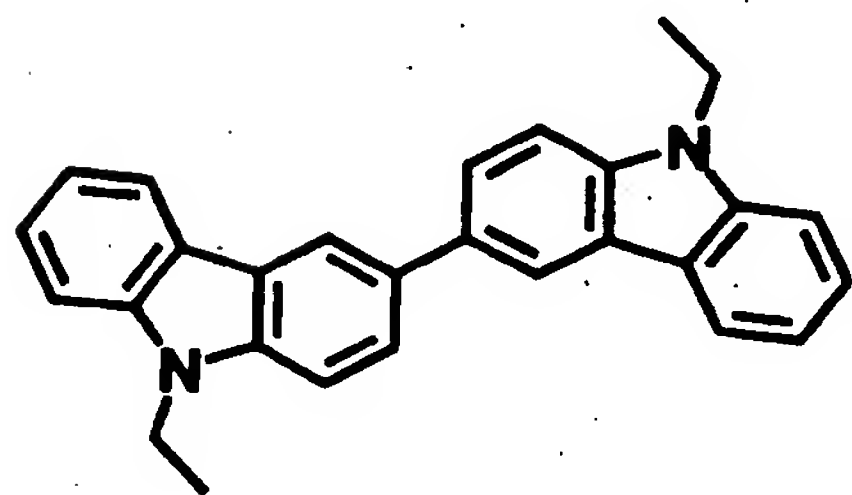
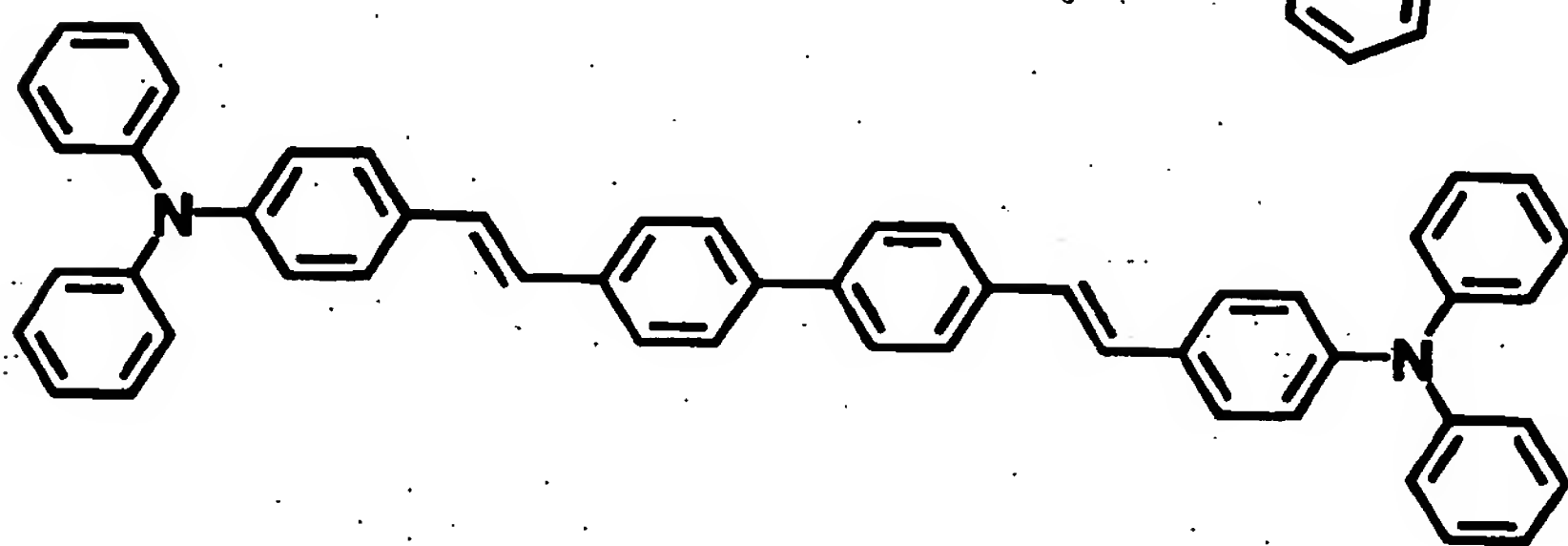
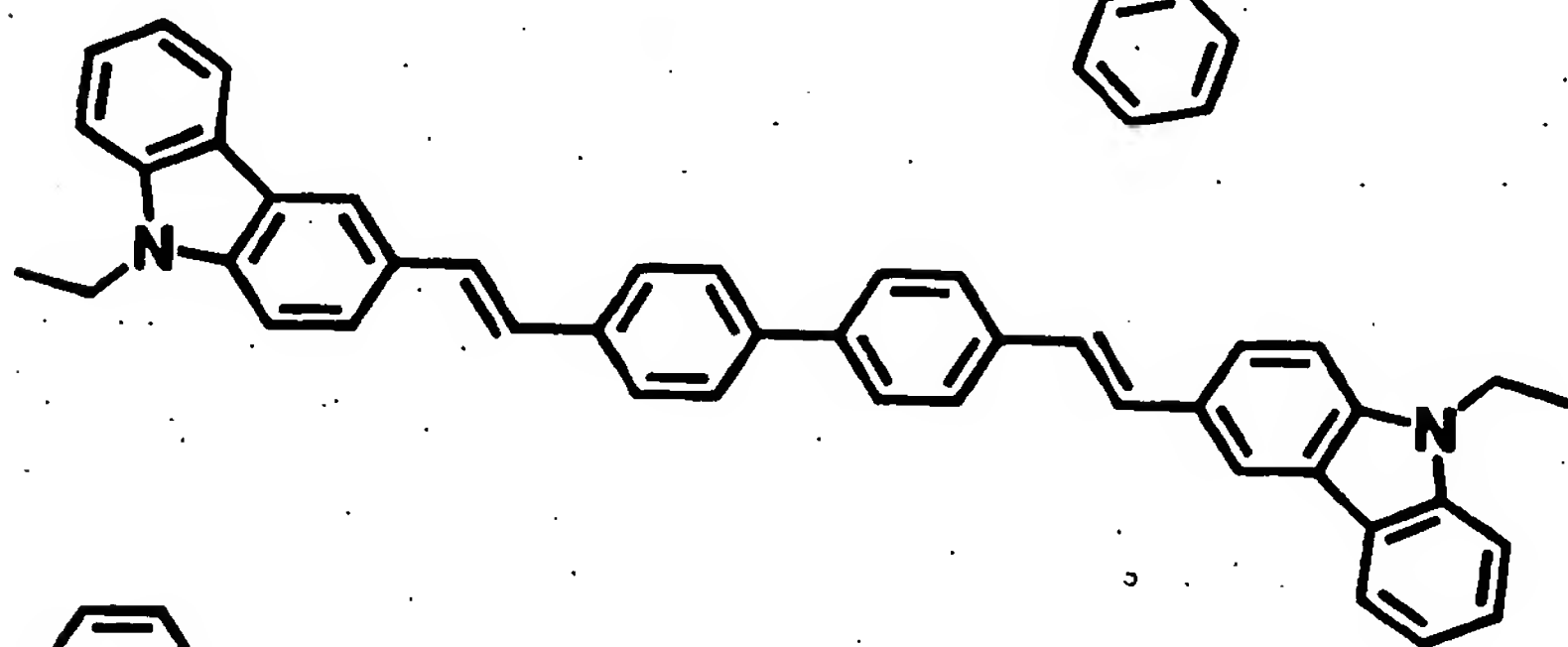
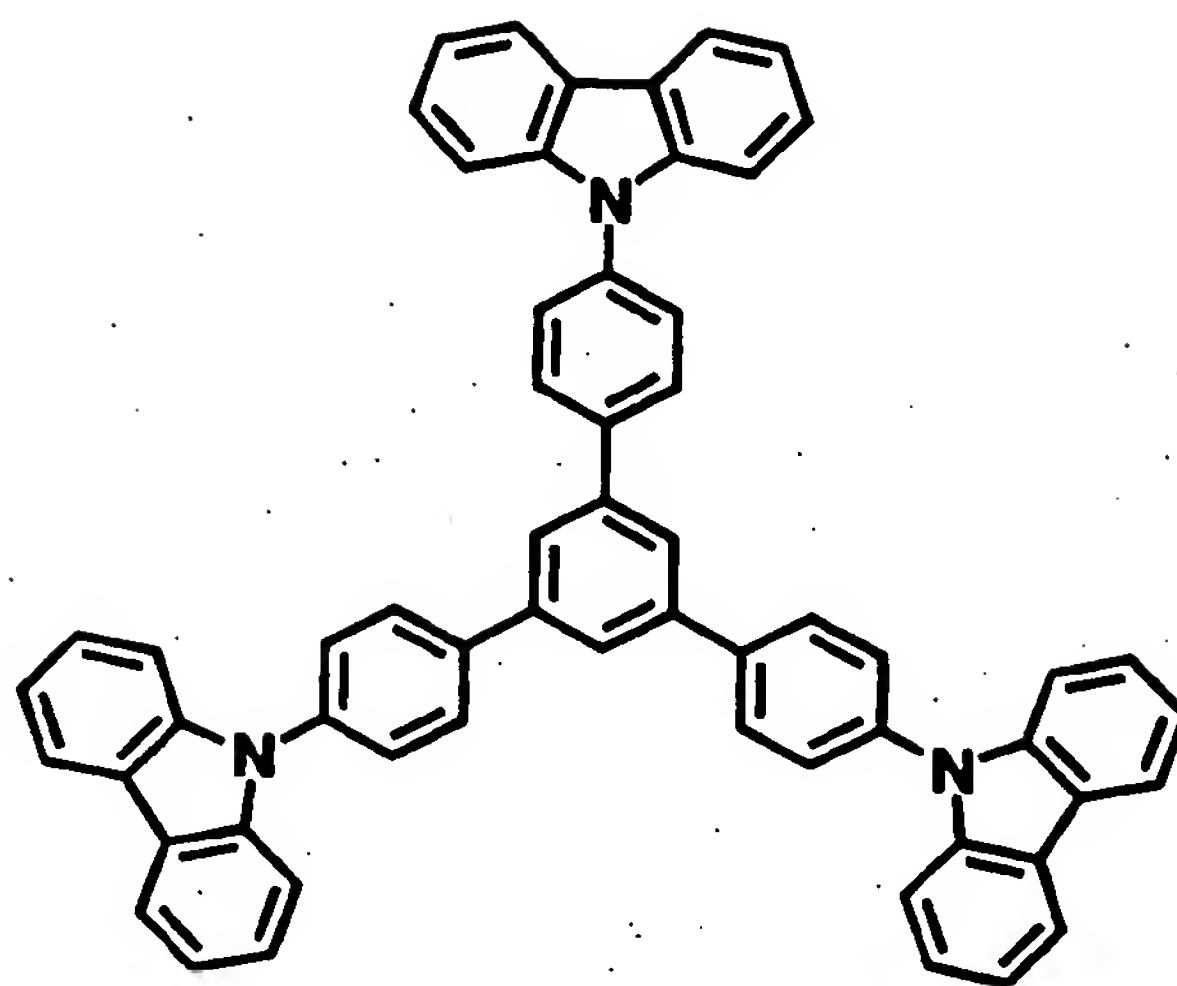
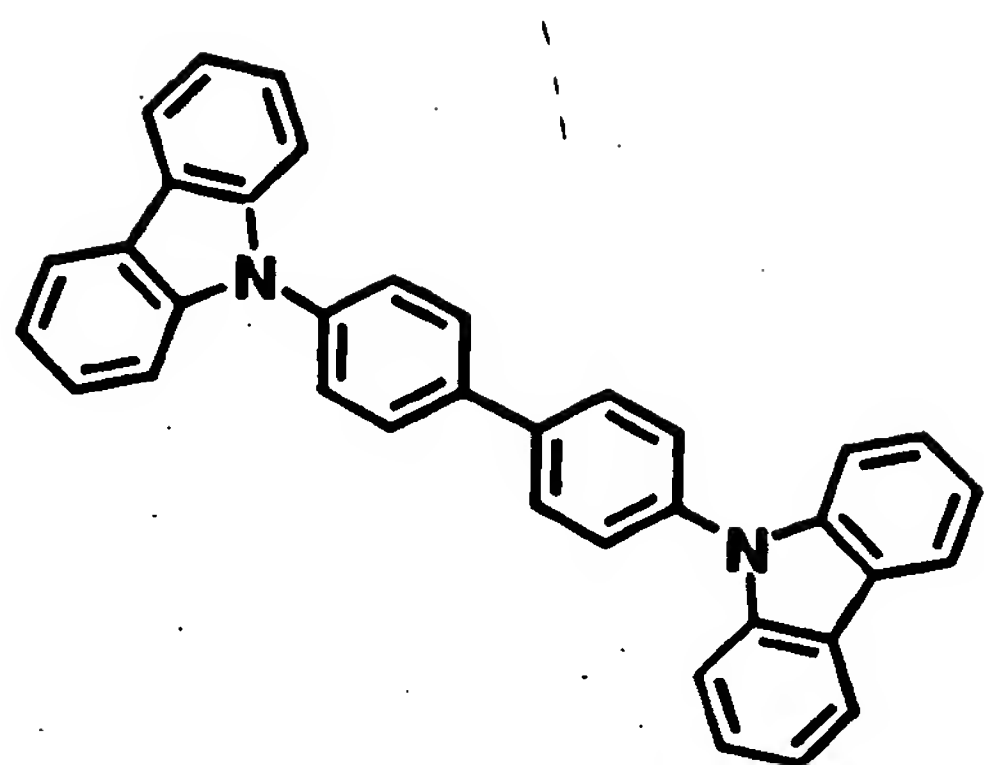
(2)

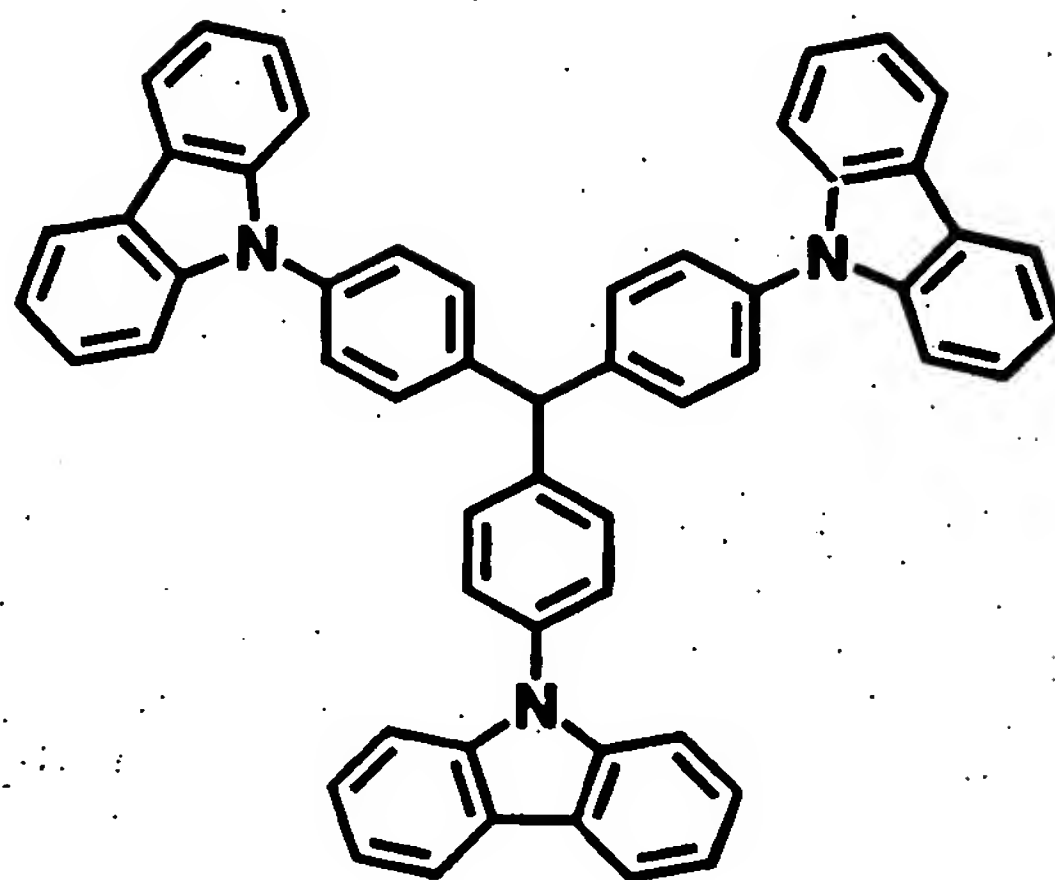
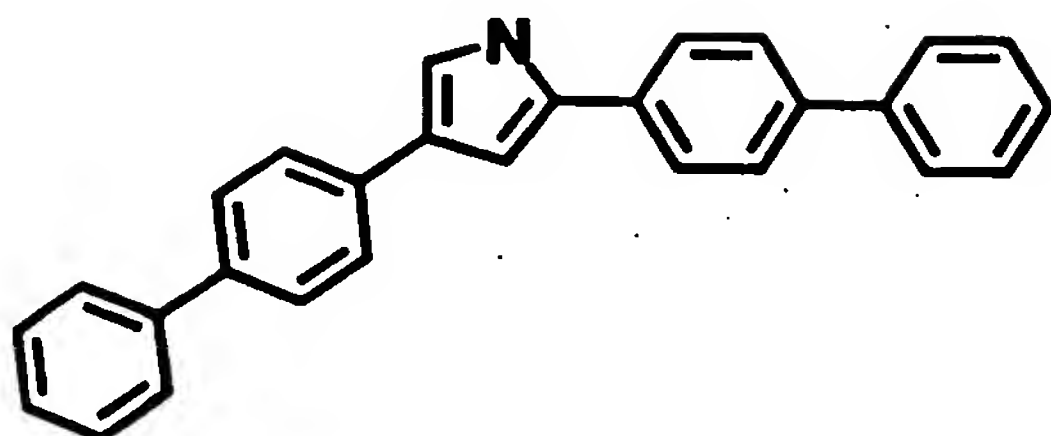
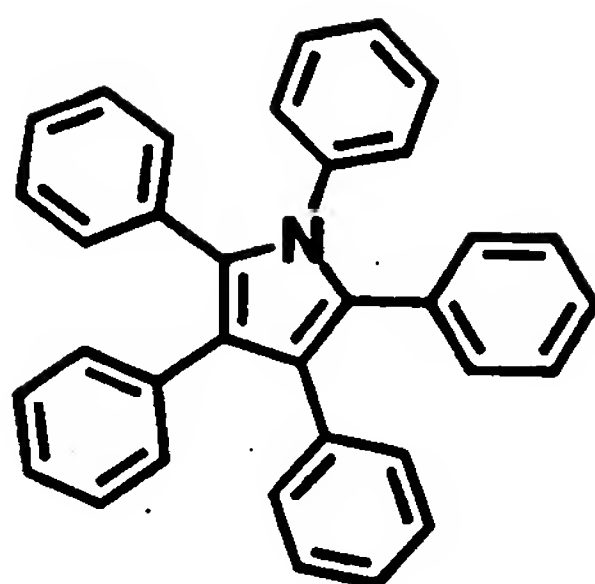
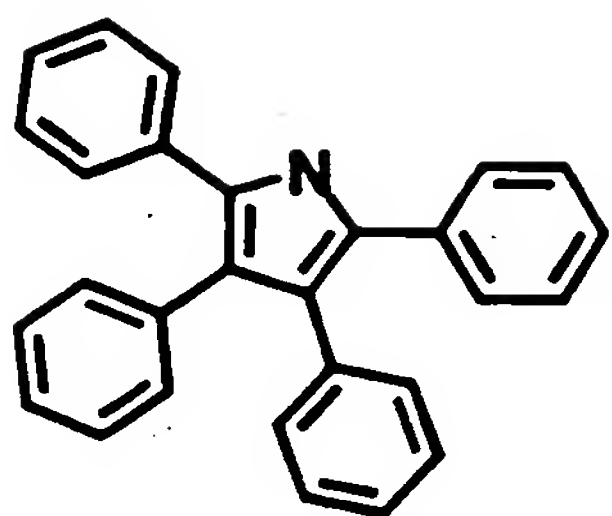


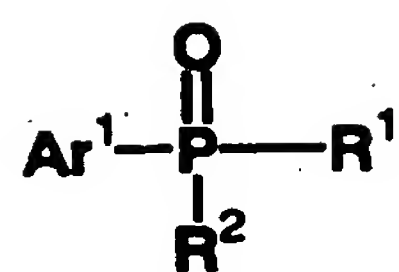




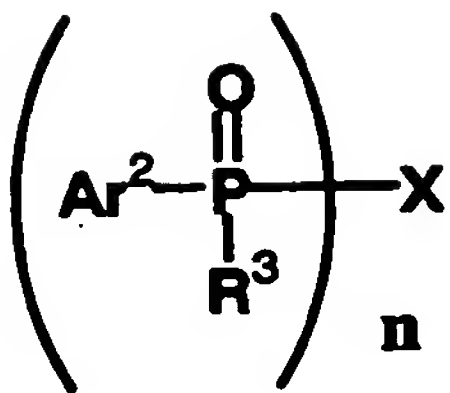




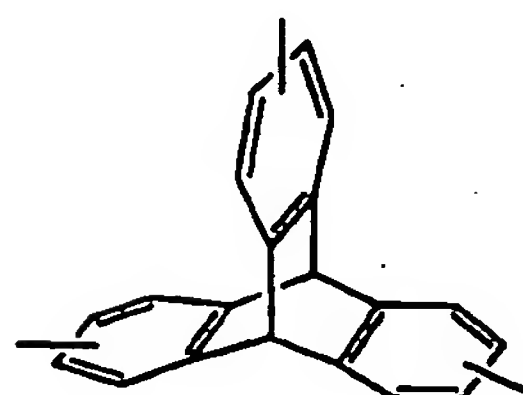
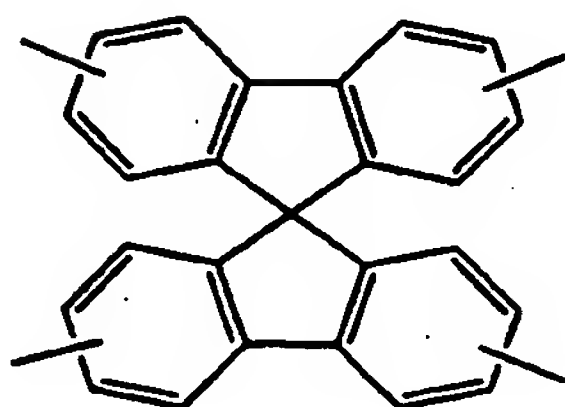
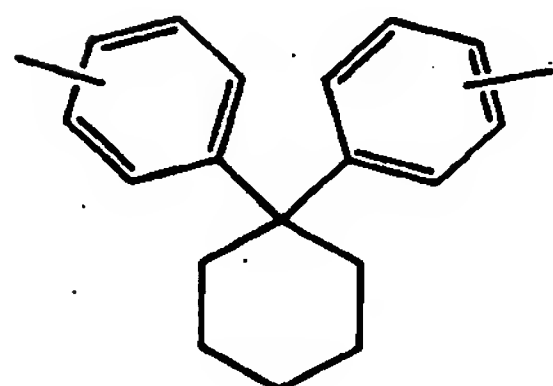
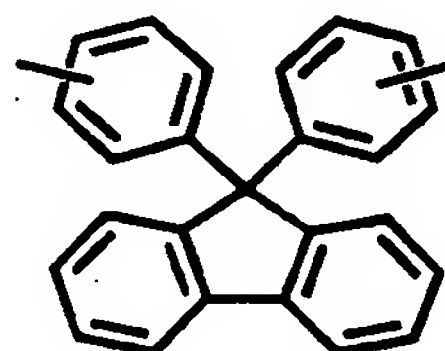
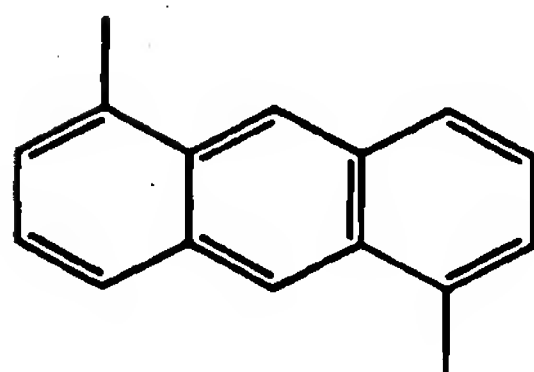
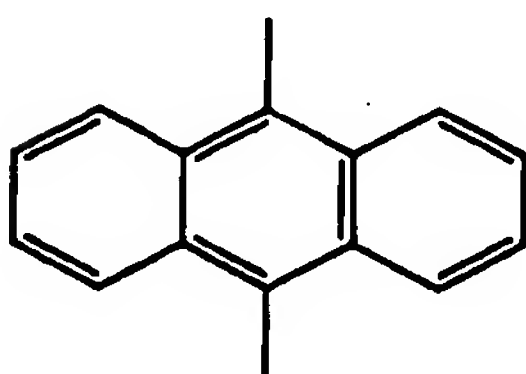
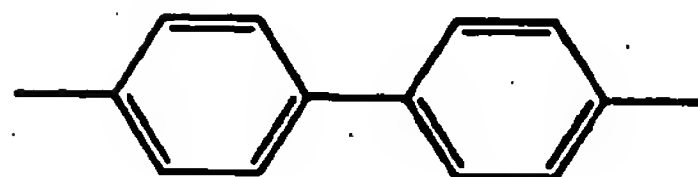
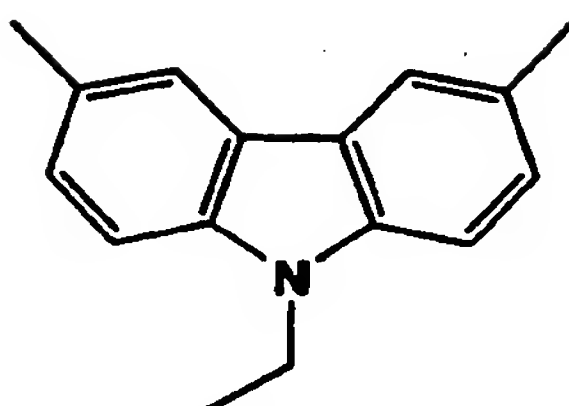
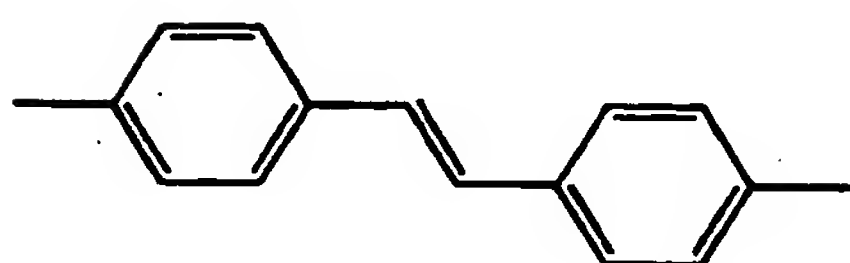
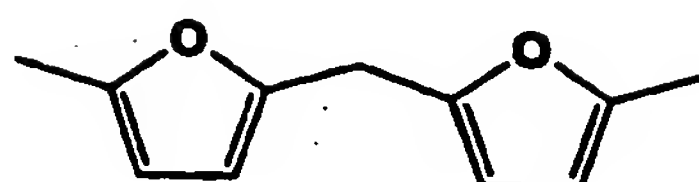
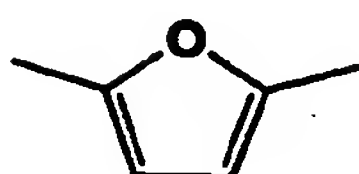
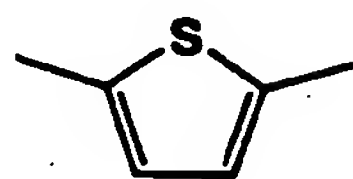
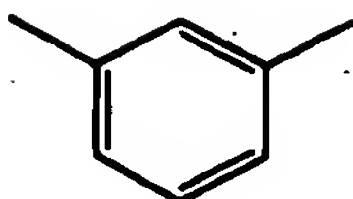
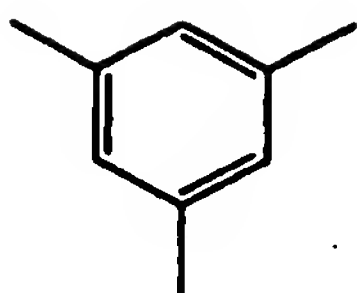
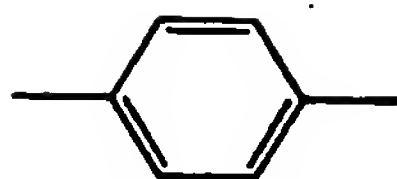


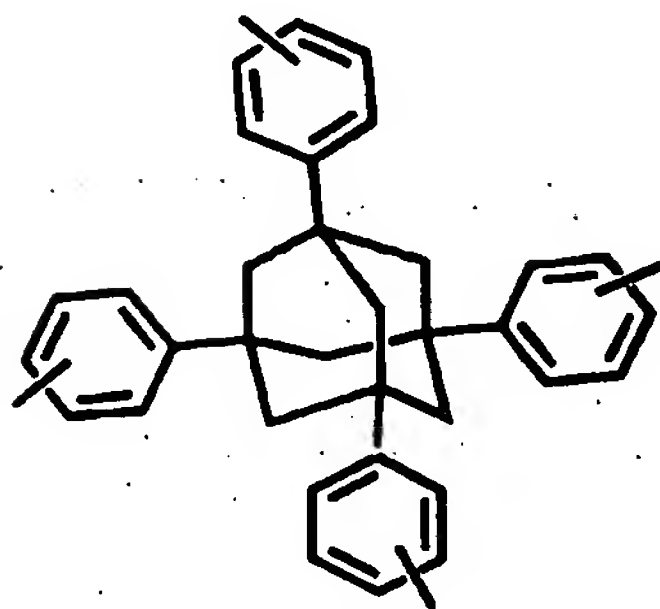
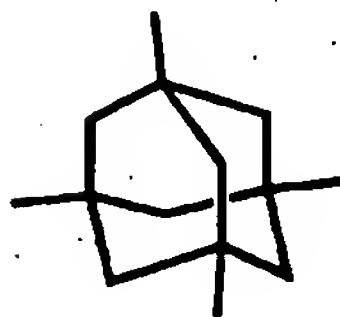
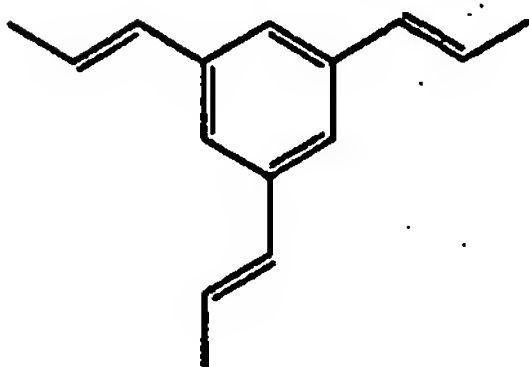
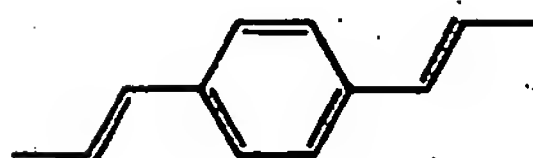
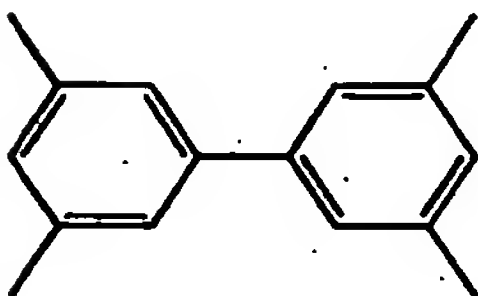
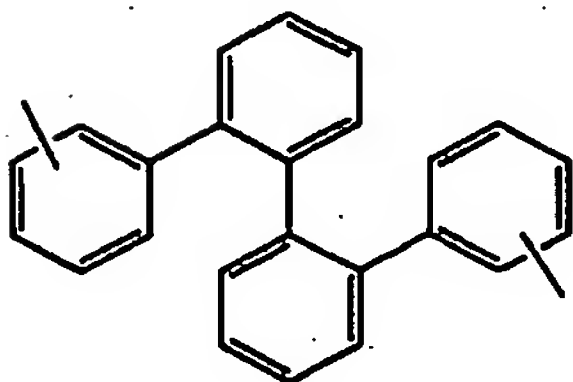
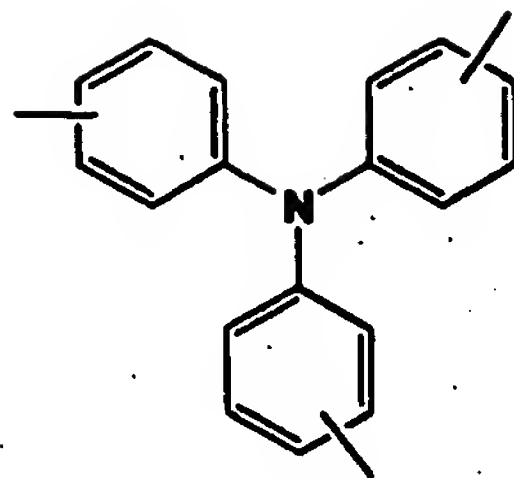
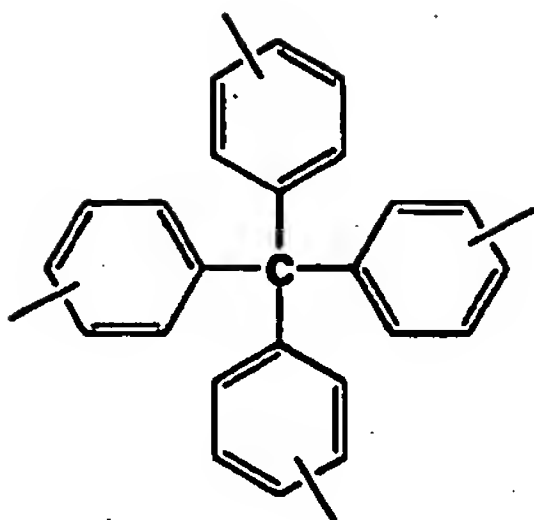
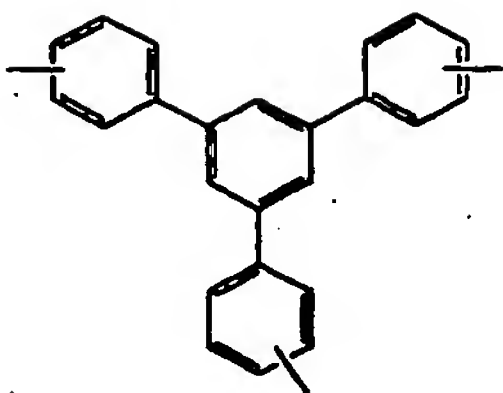


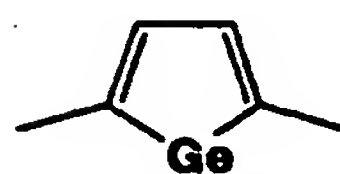
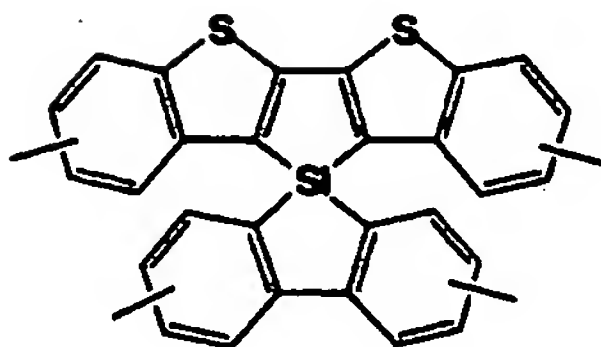
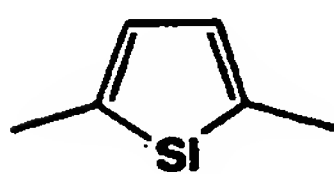
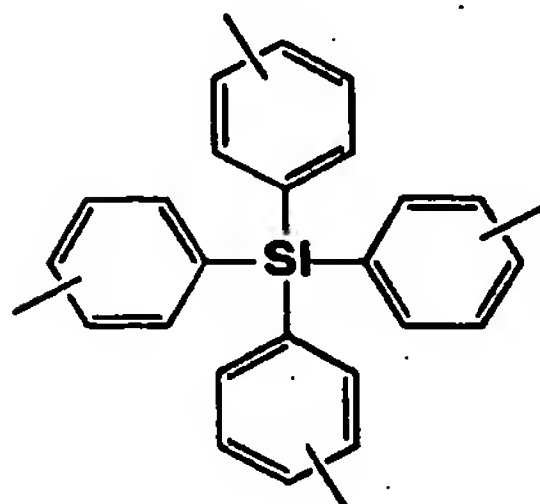
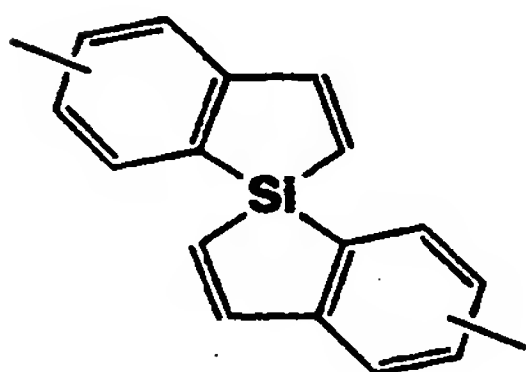
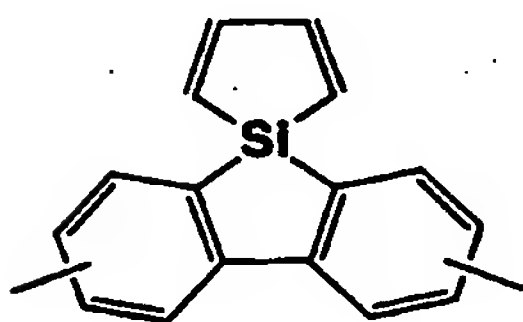
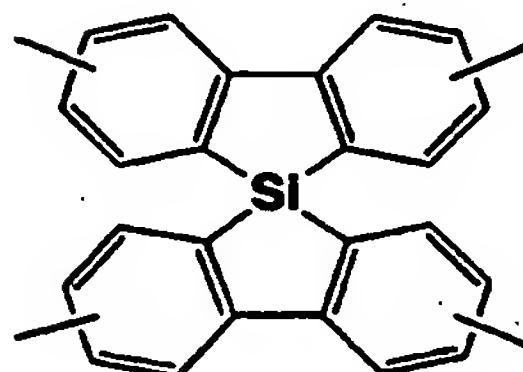
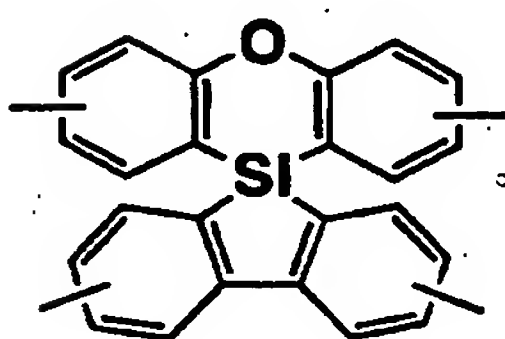
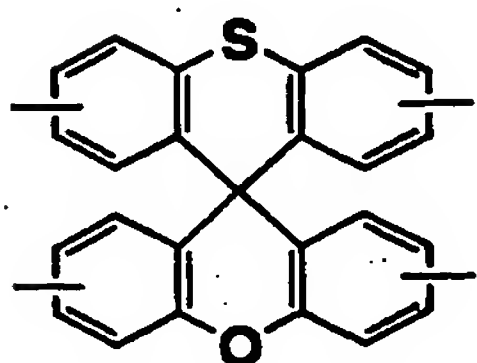
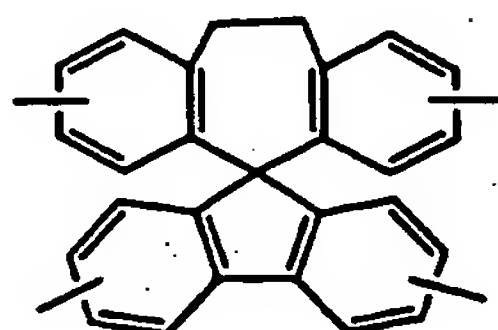
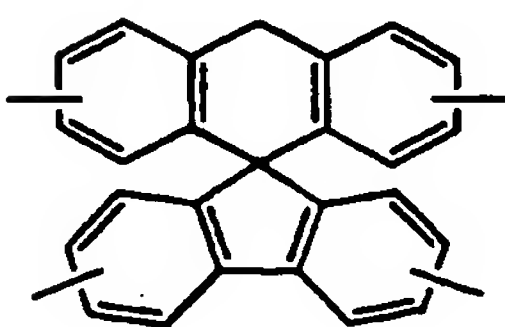
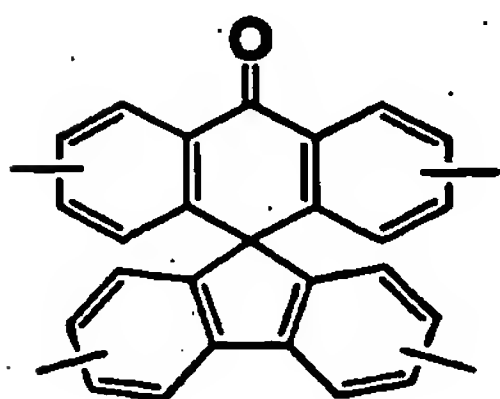
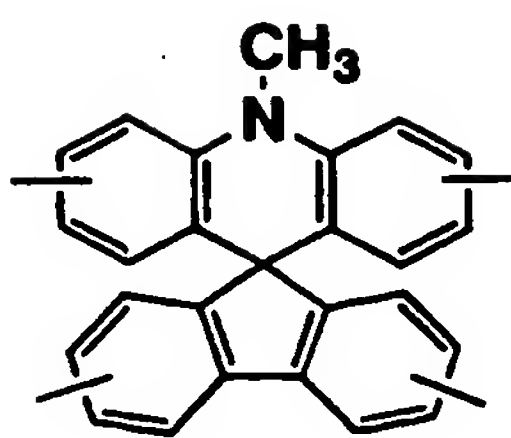
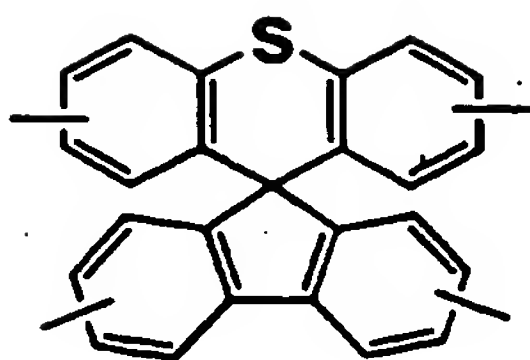
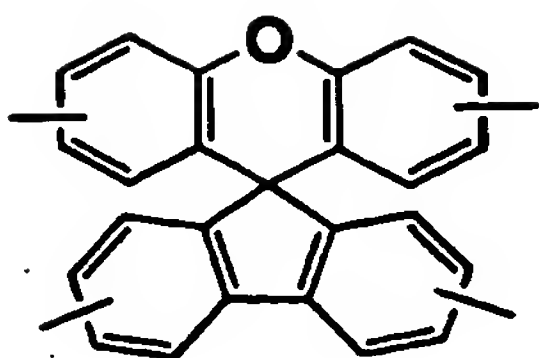
(1)

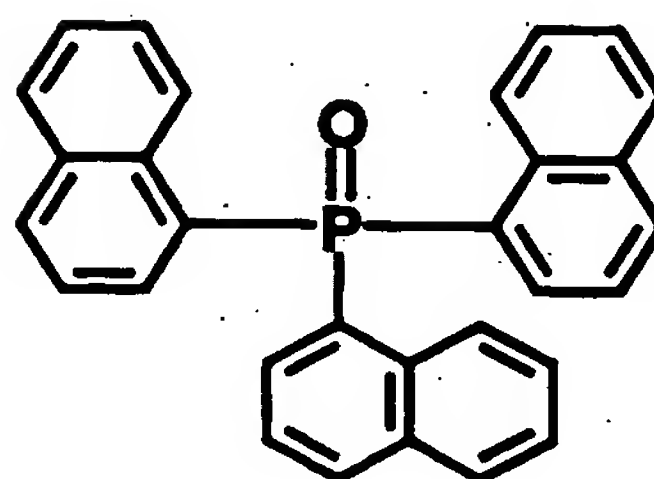
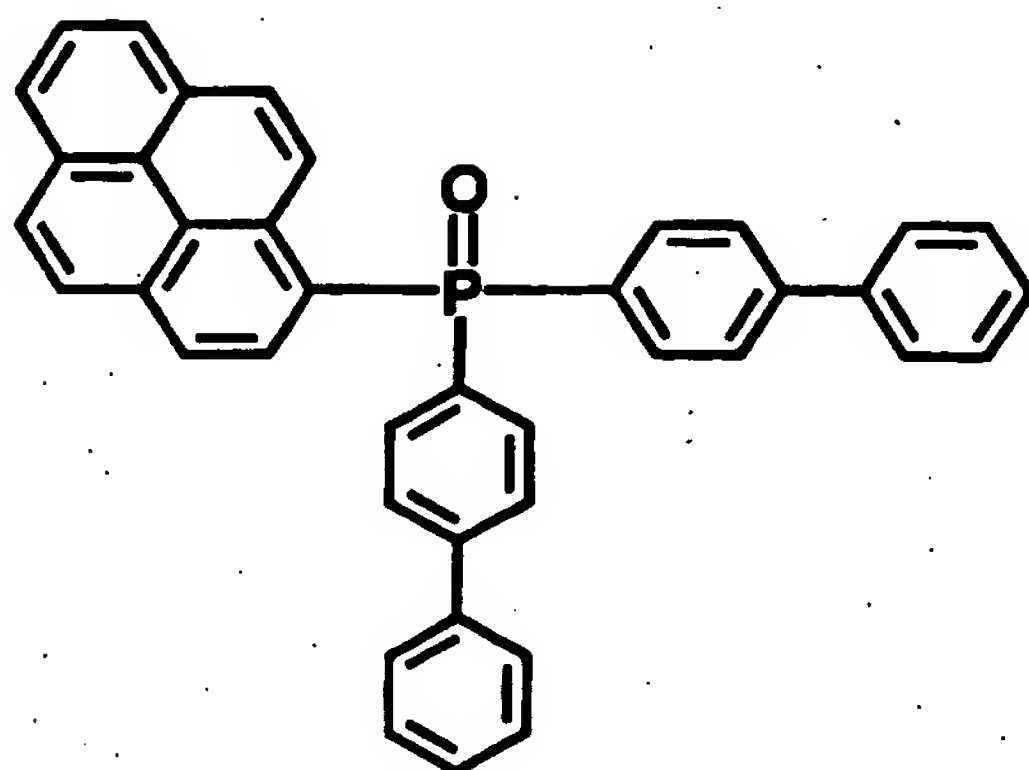
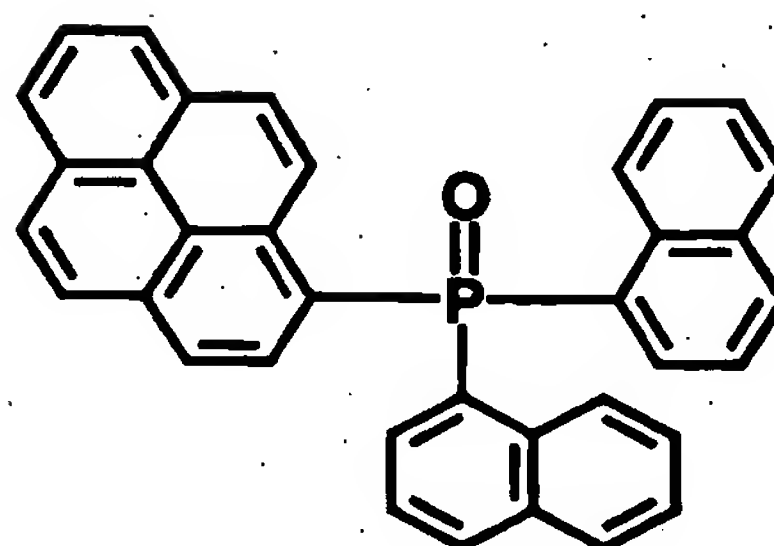
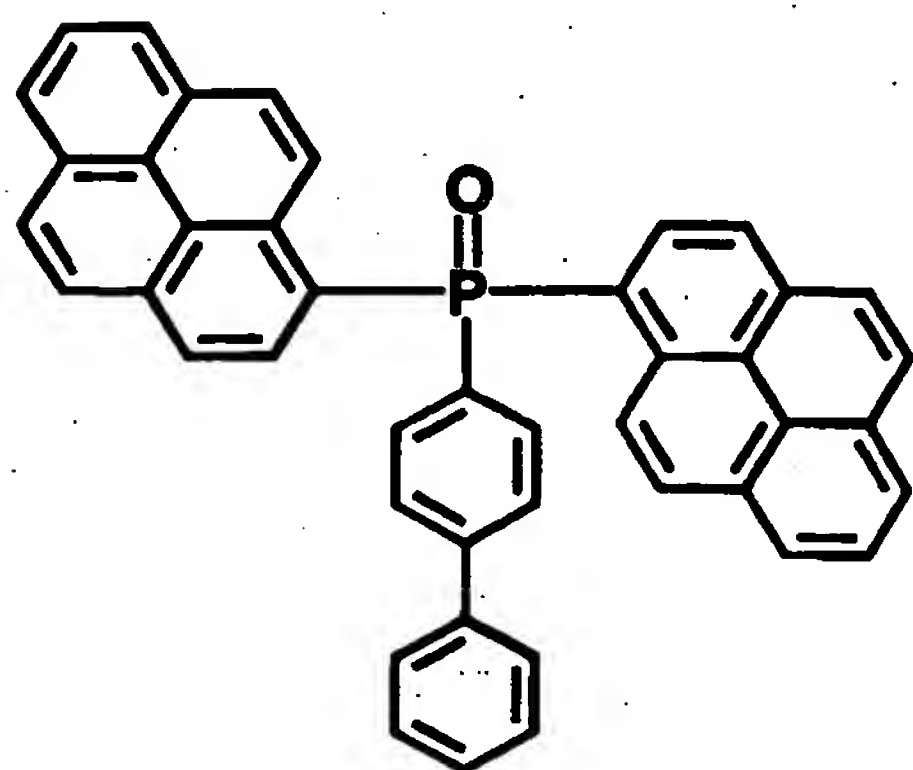
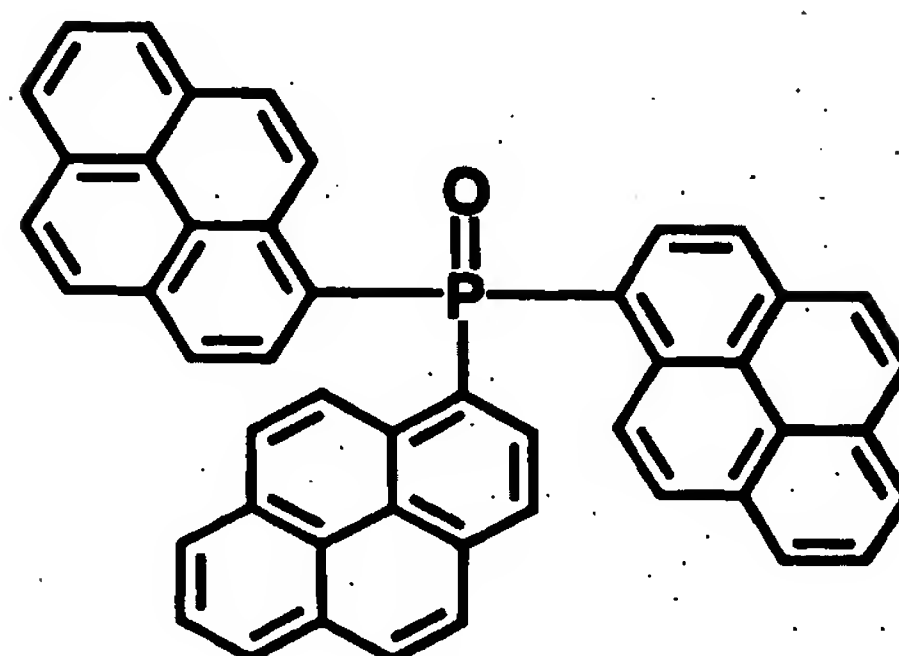
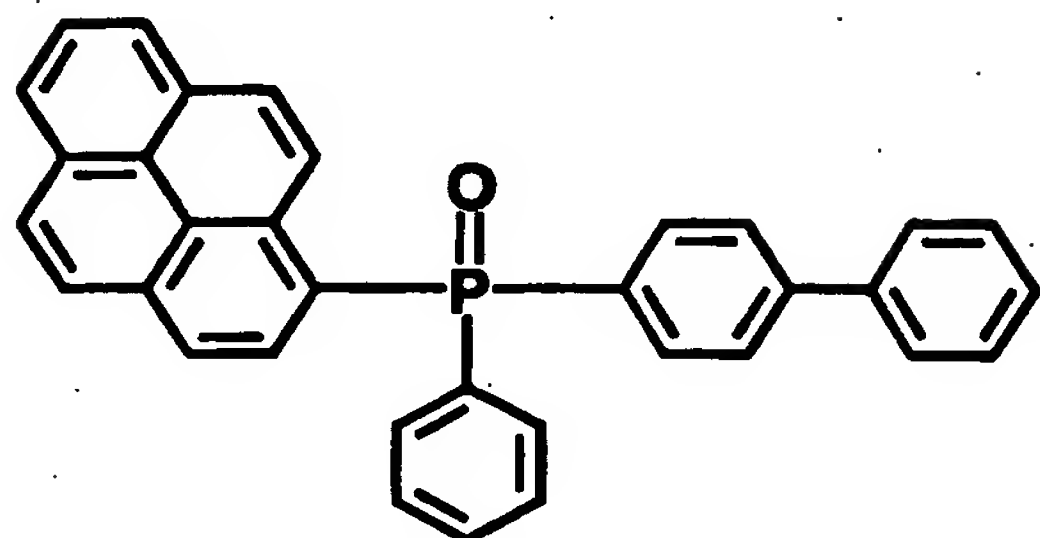
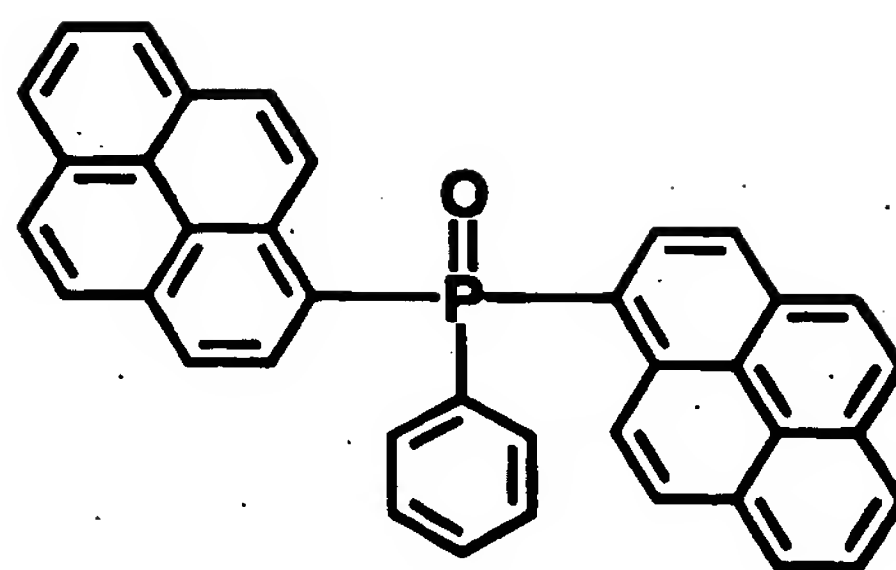
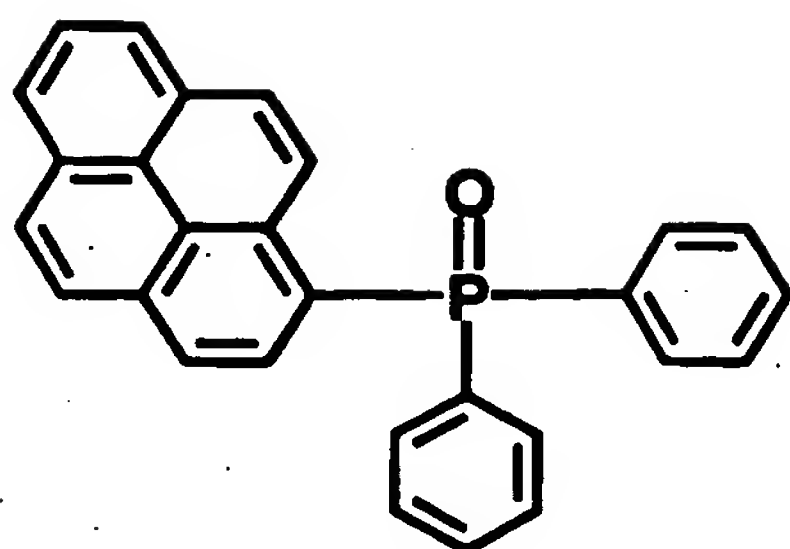


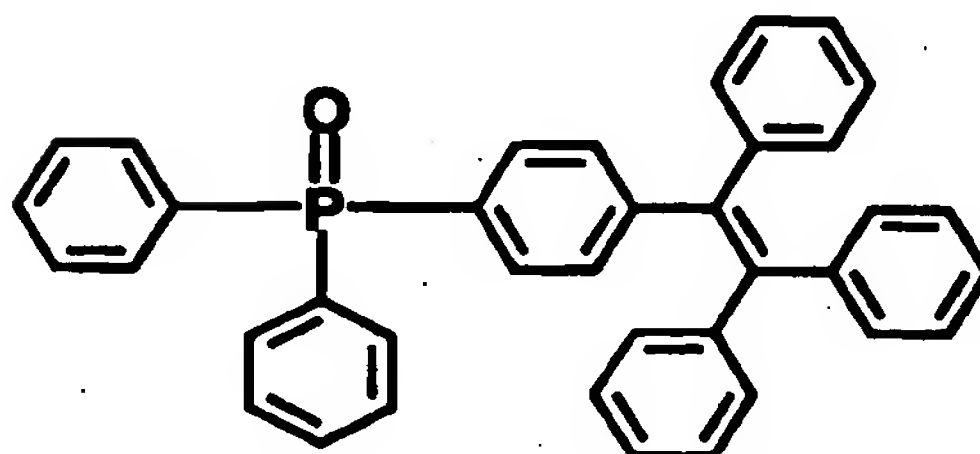
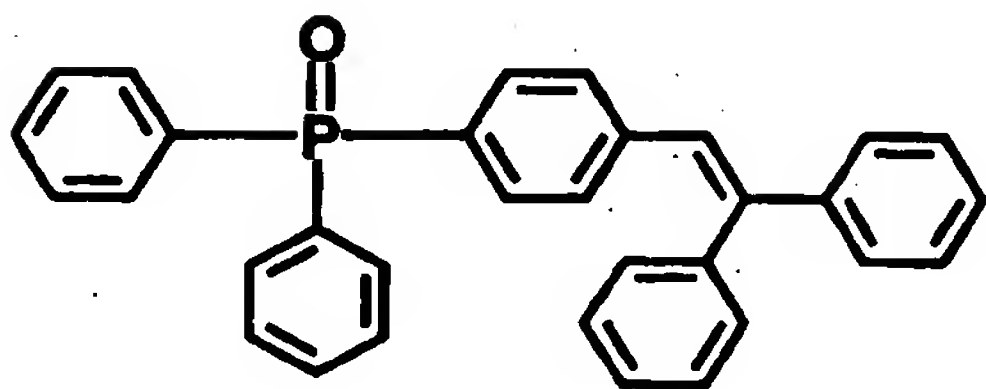
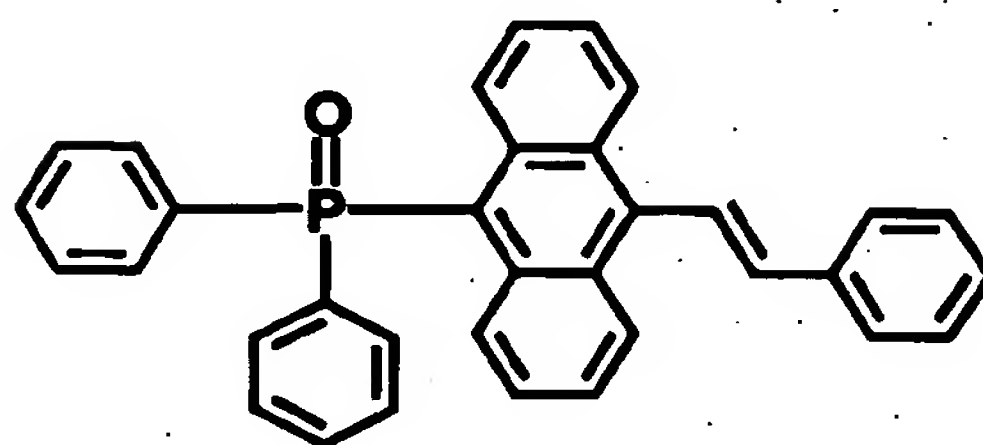
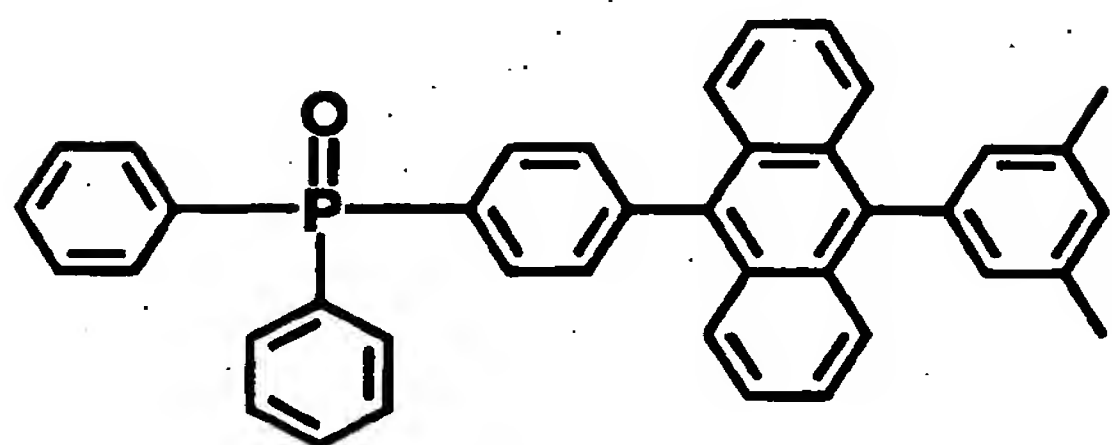
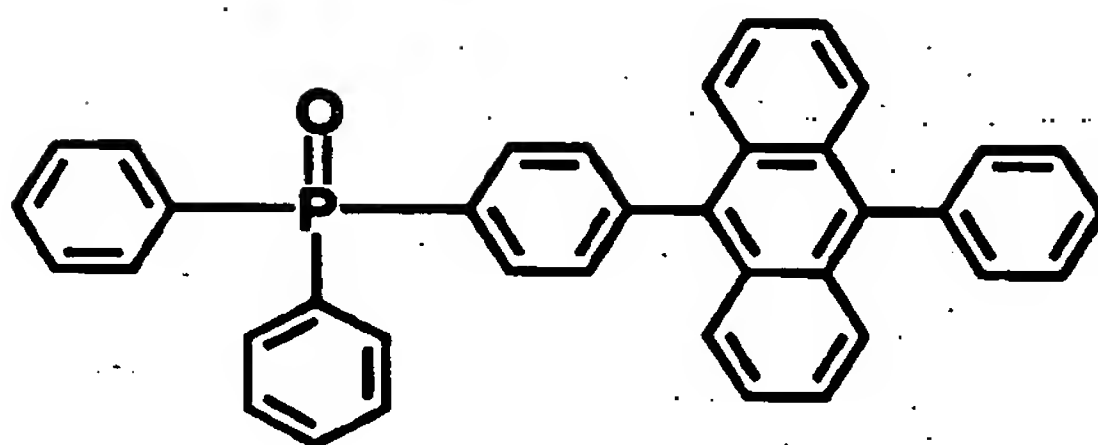
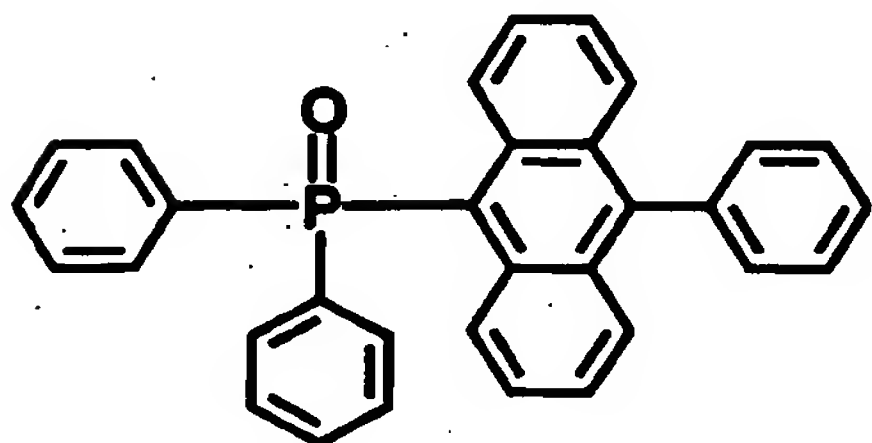
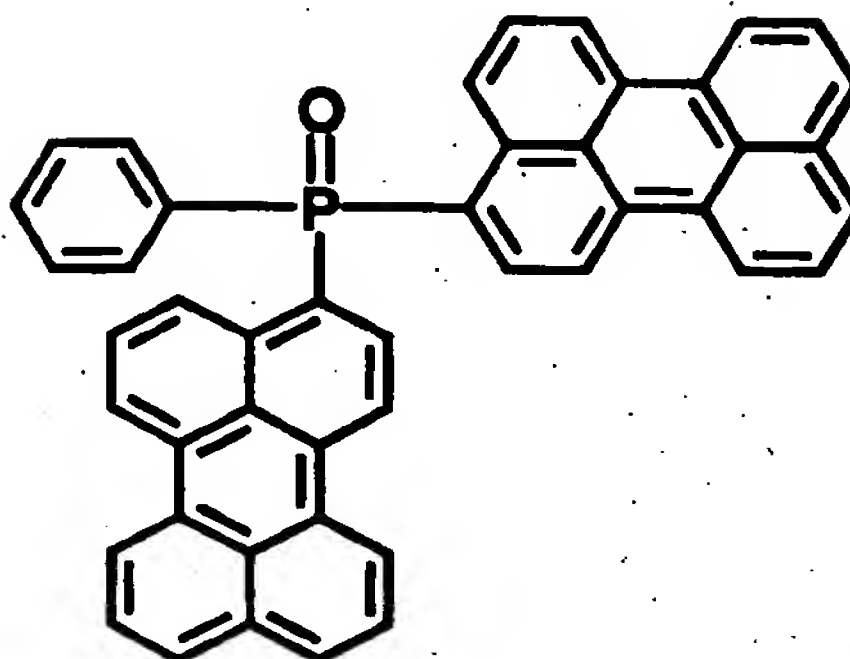
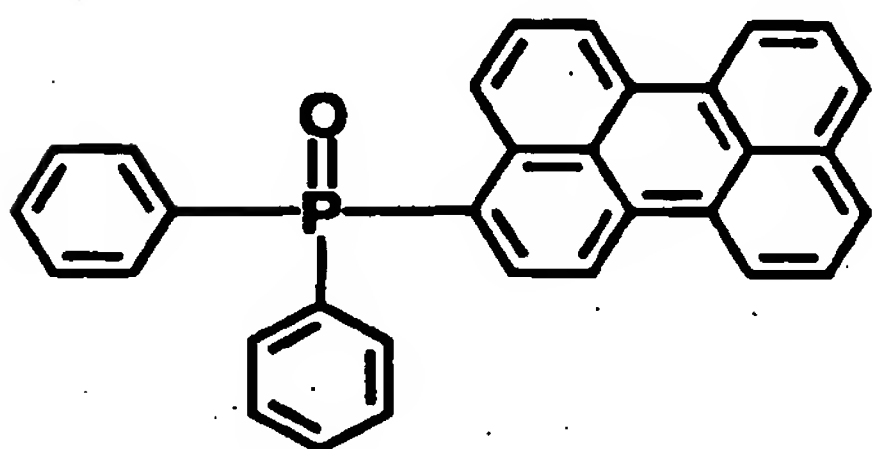
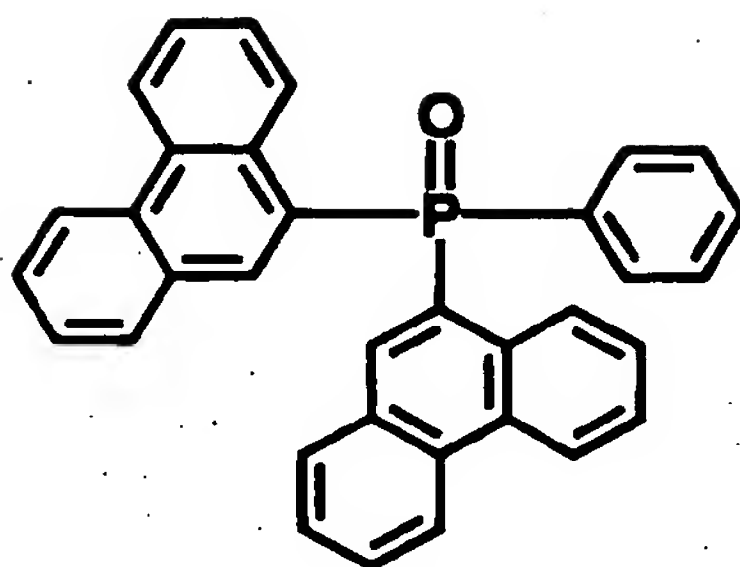
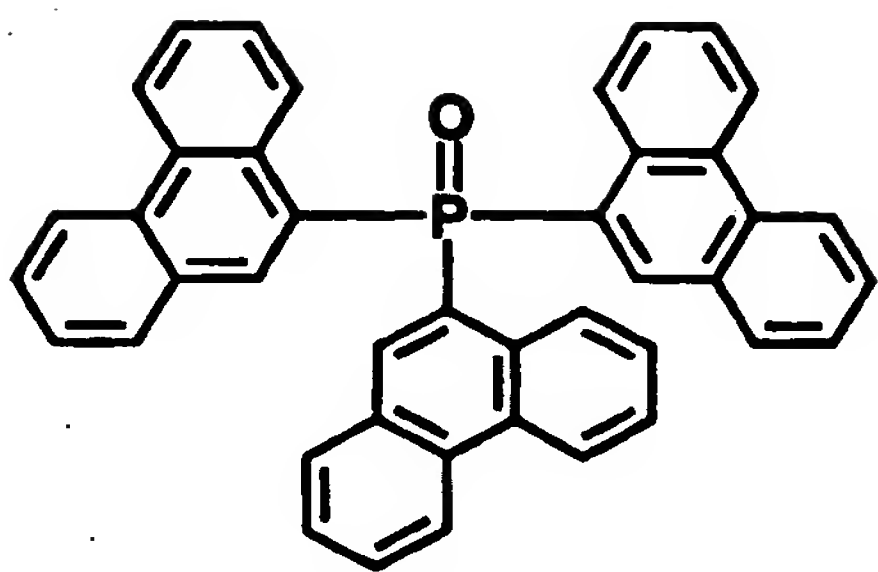
(2)

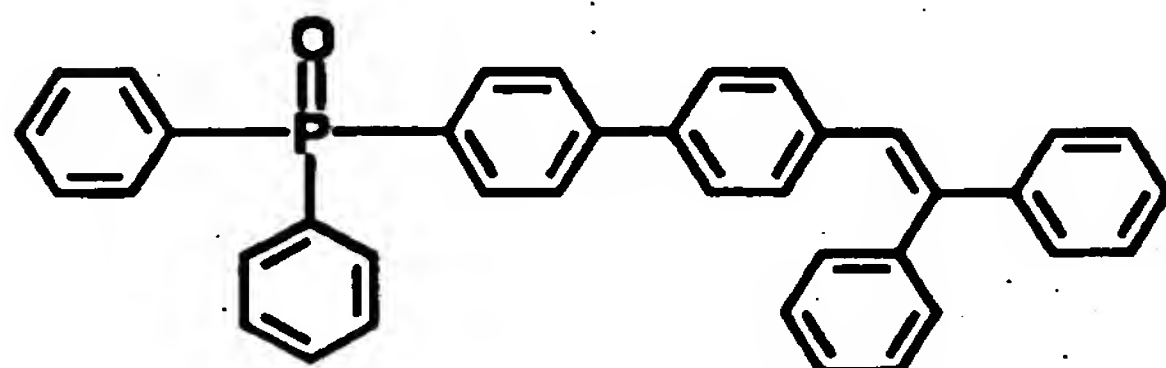
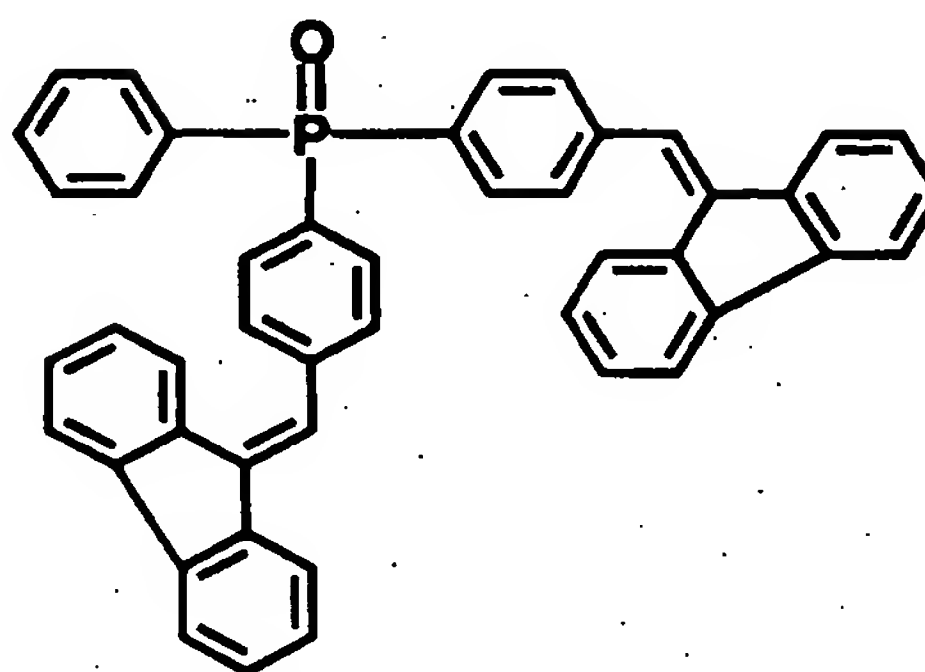
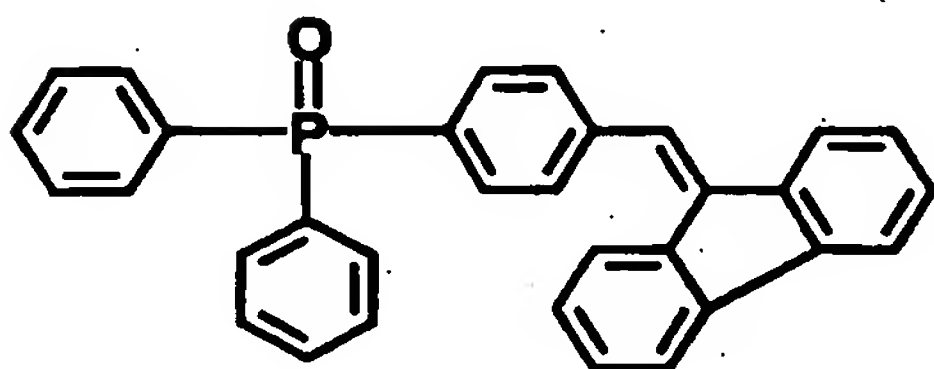
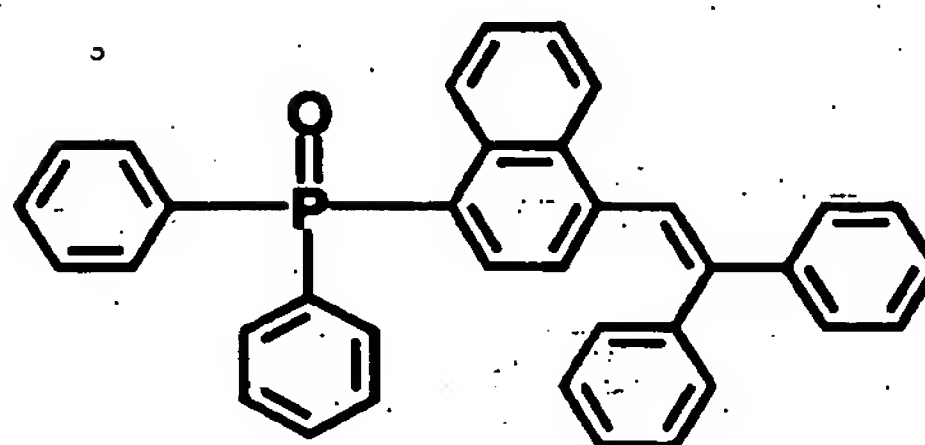
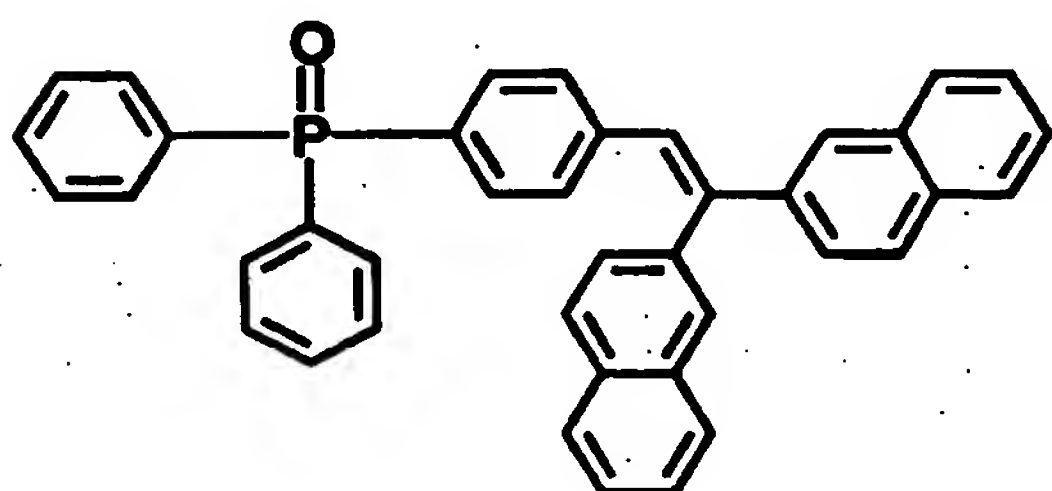
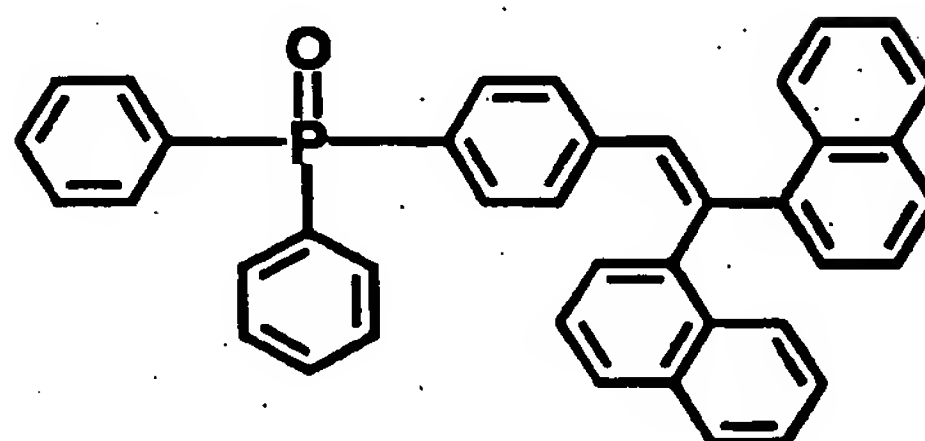
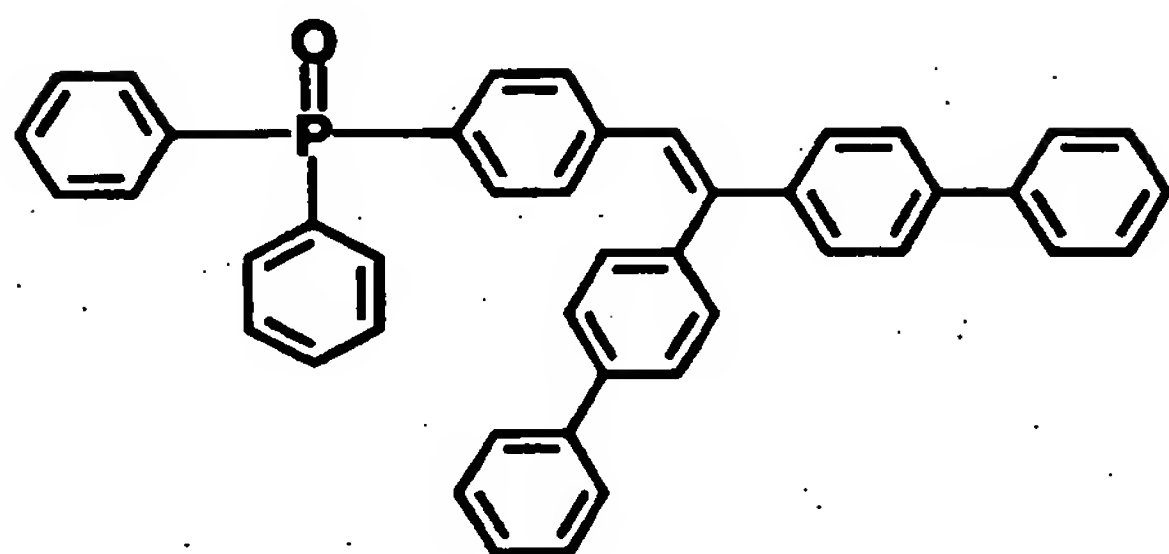
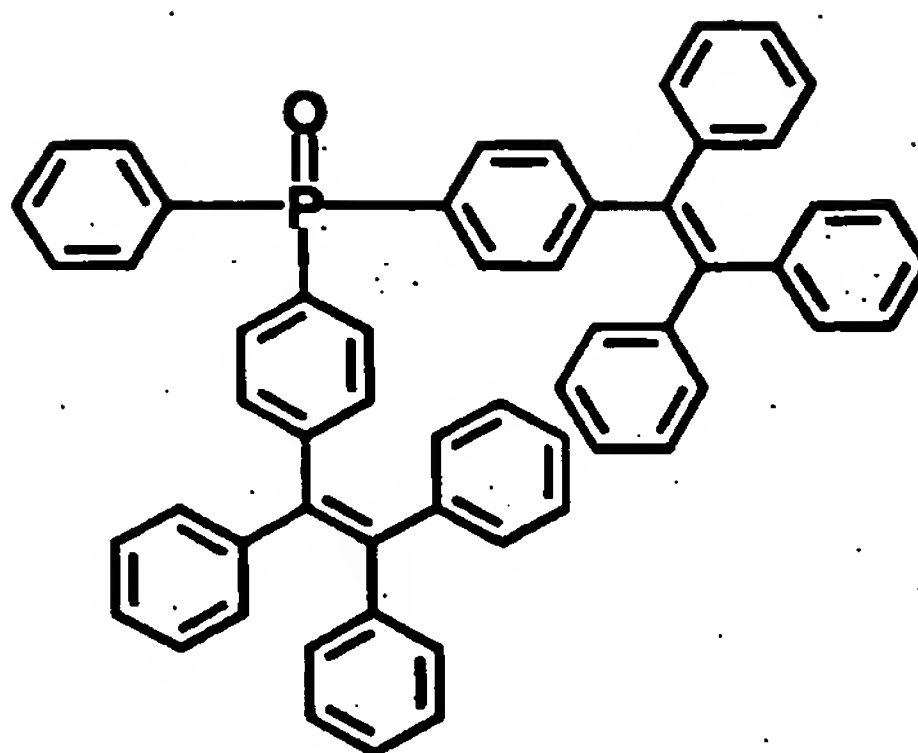
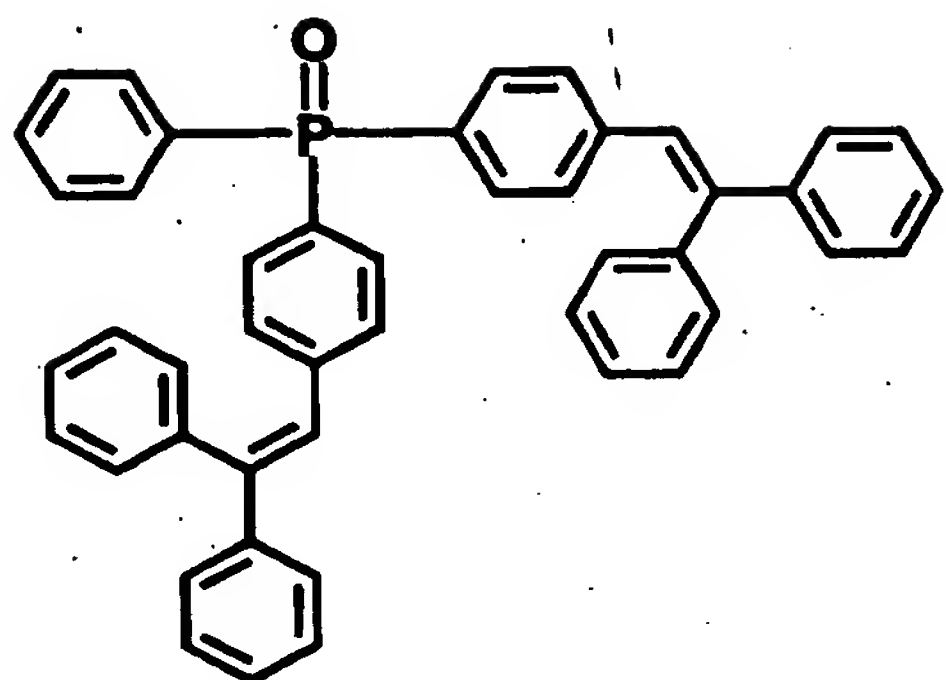


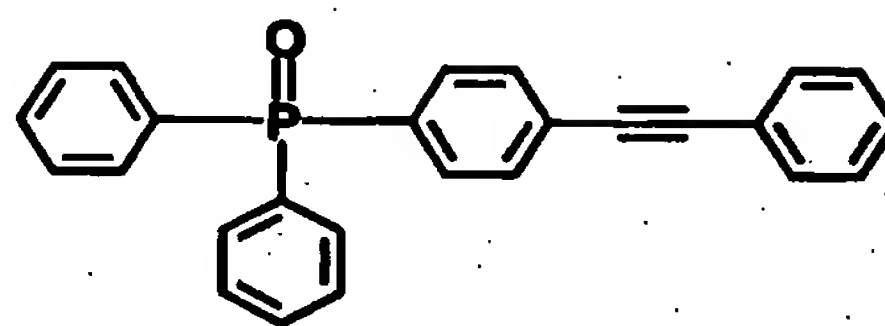
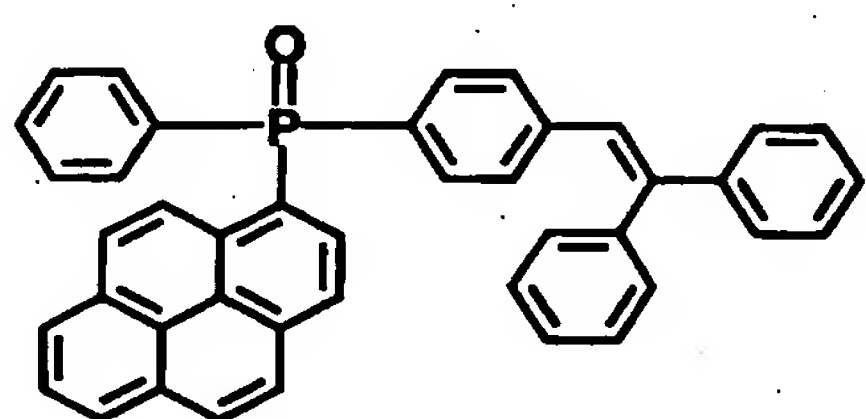
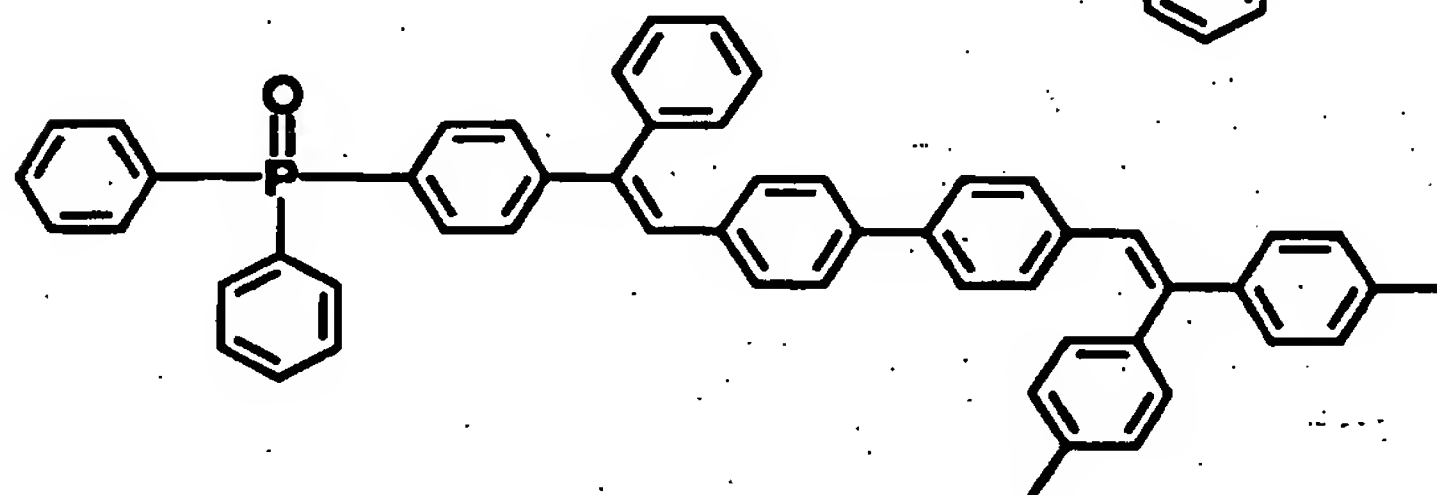
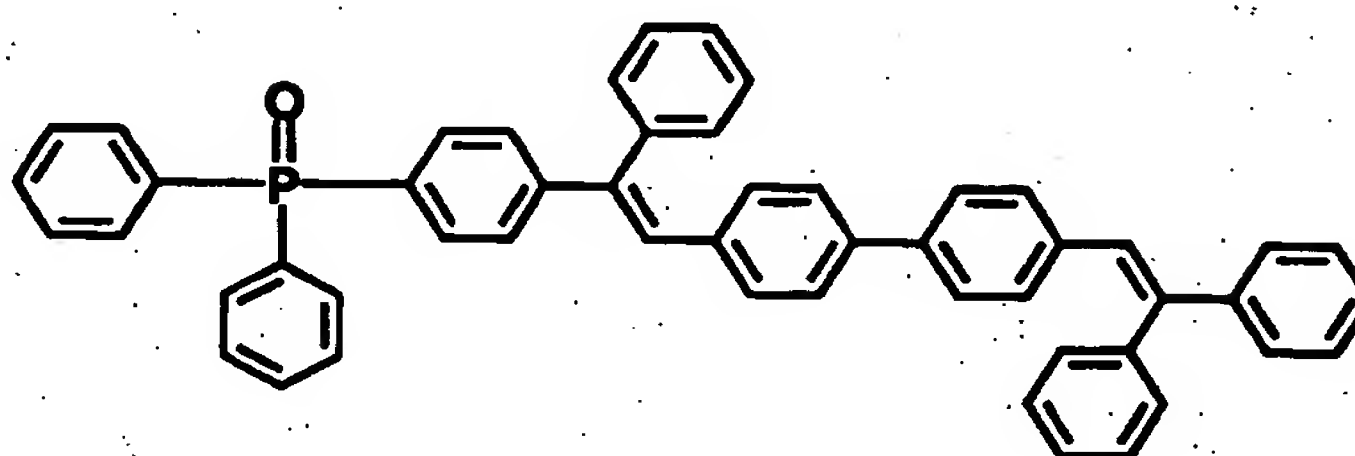
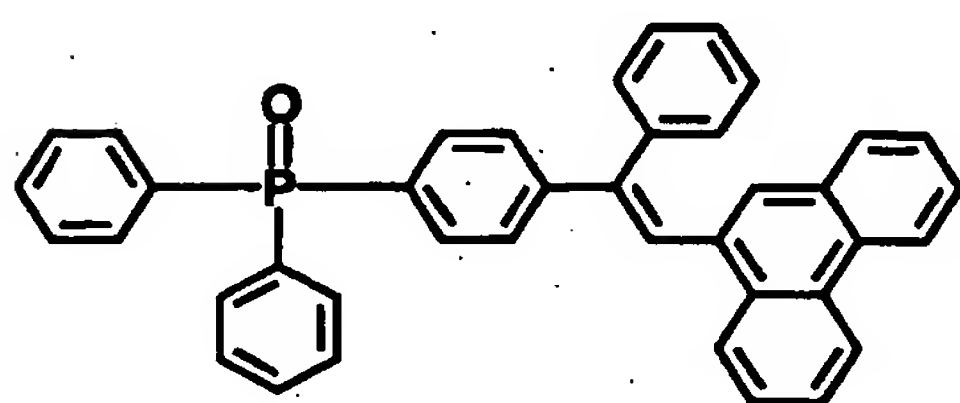
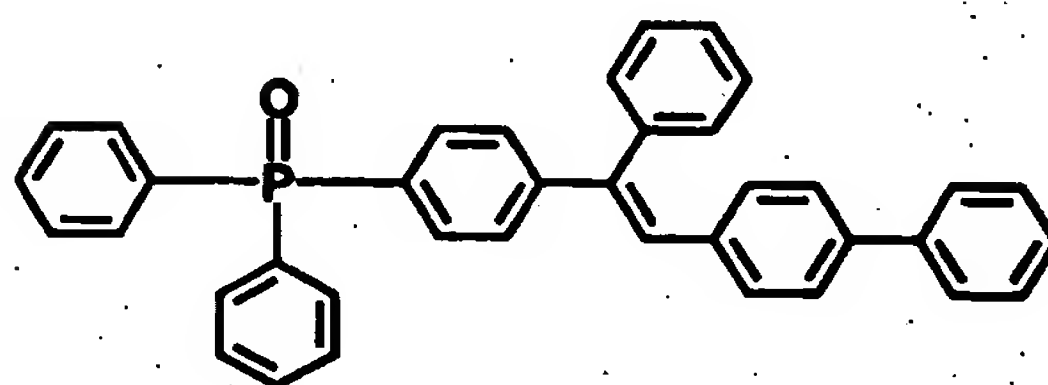
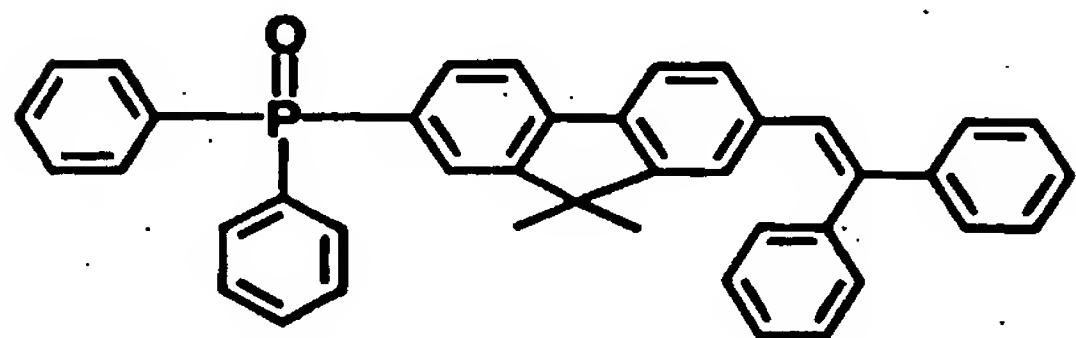
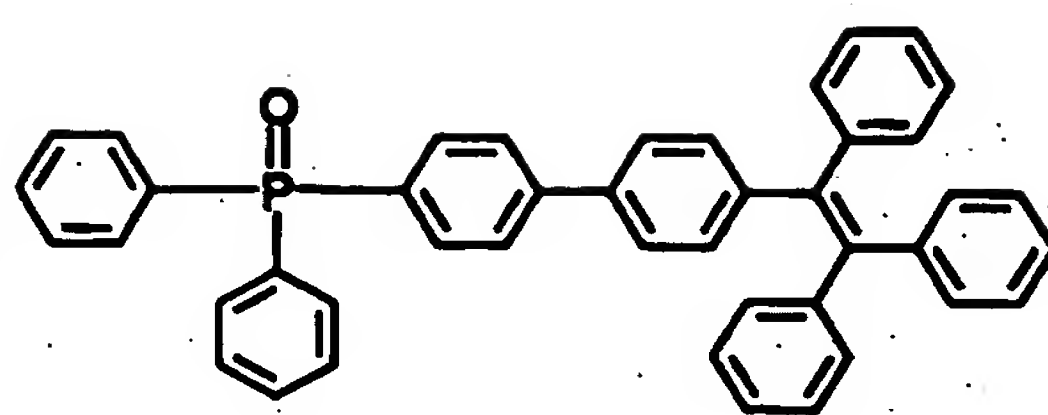
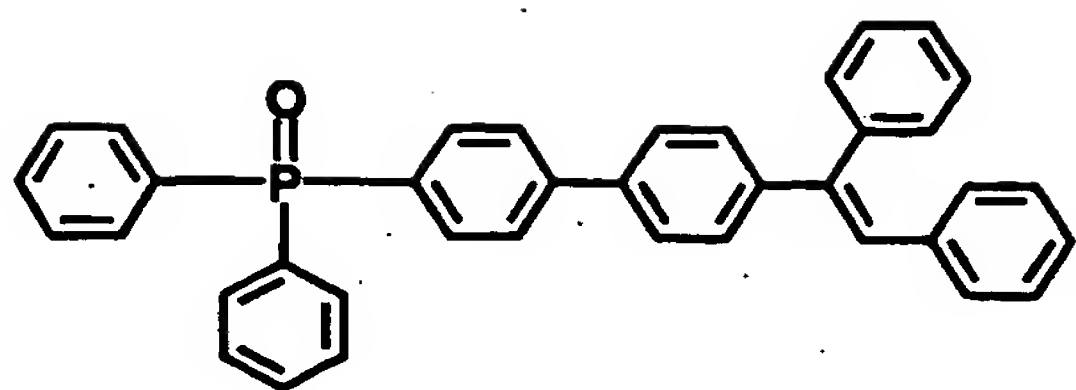


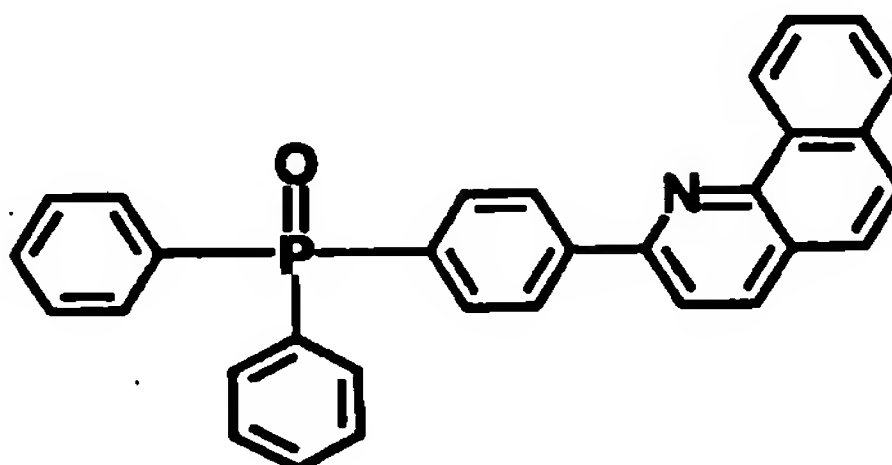
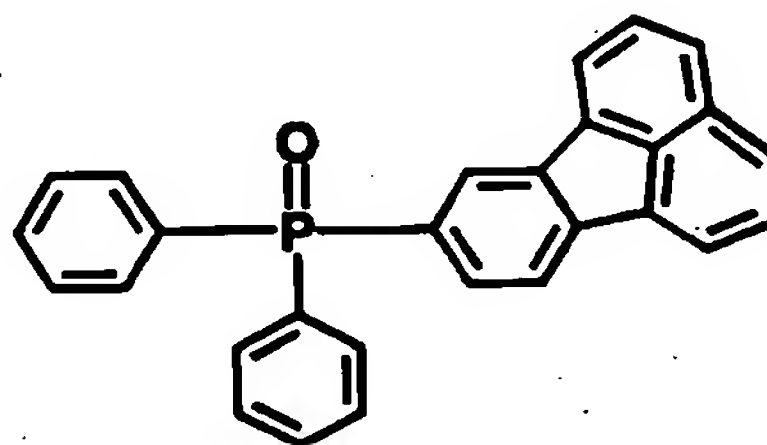
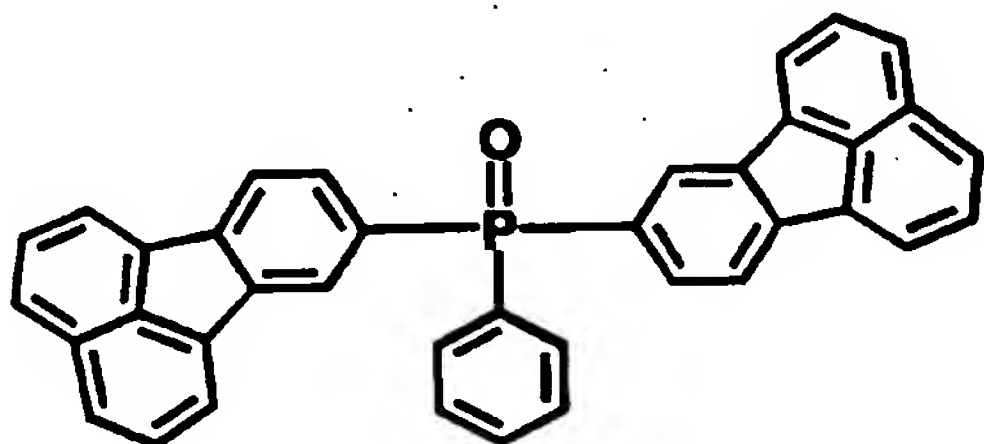
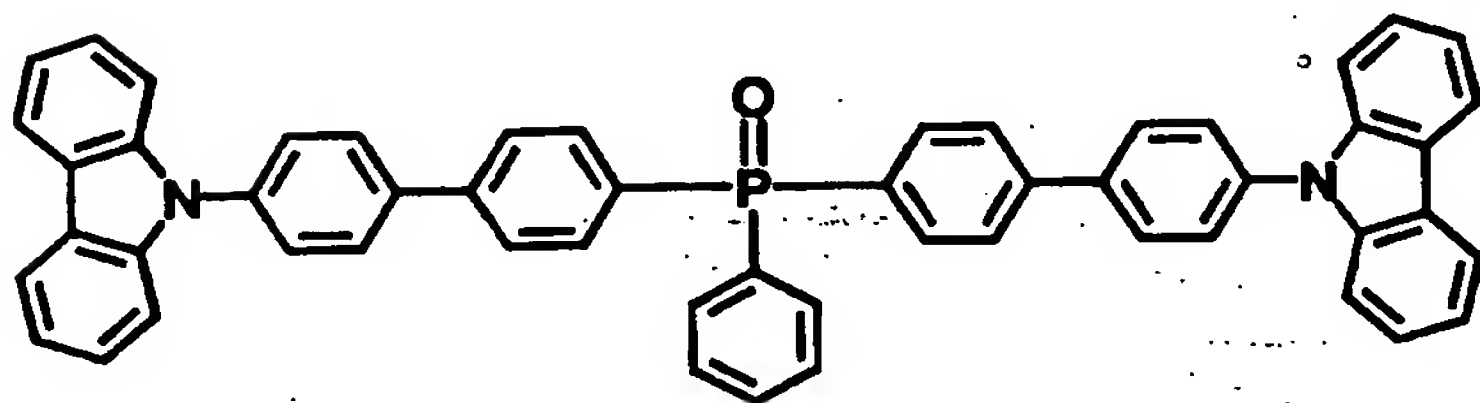
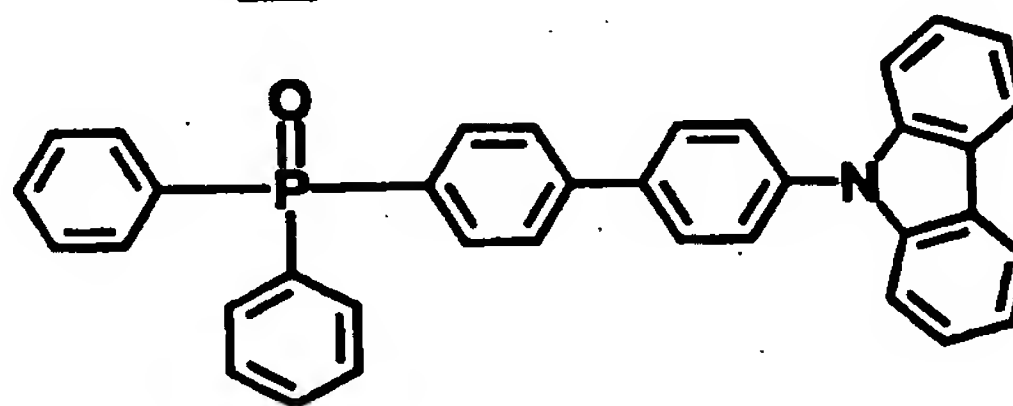
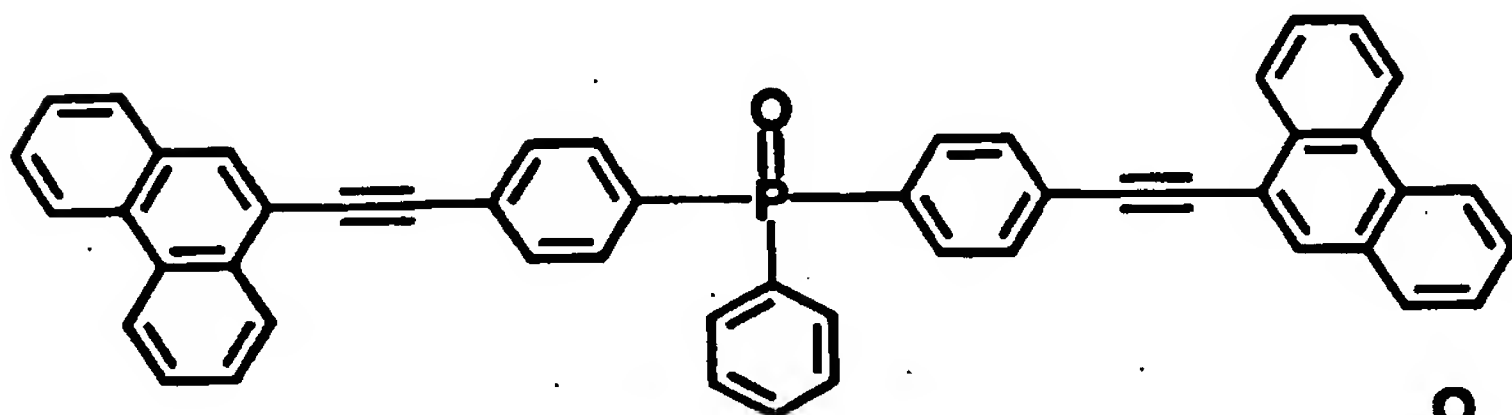
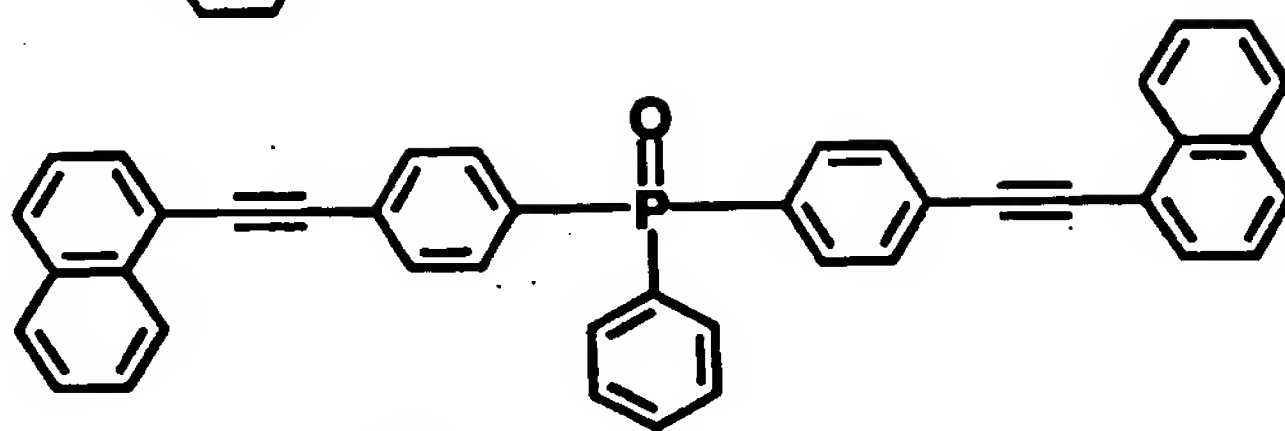
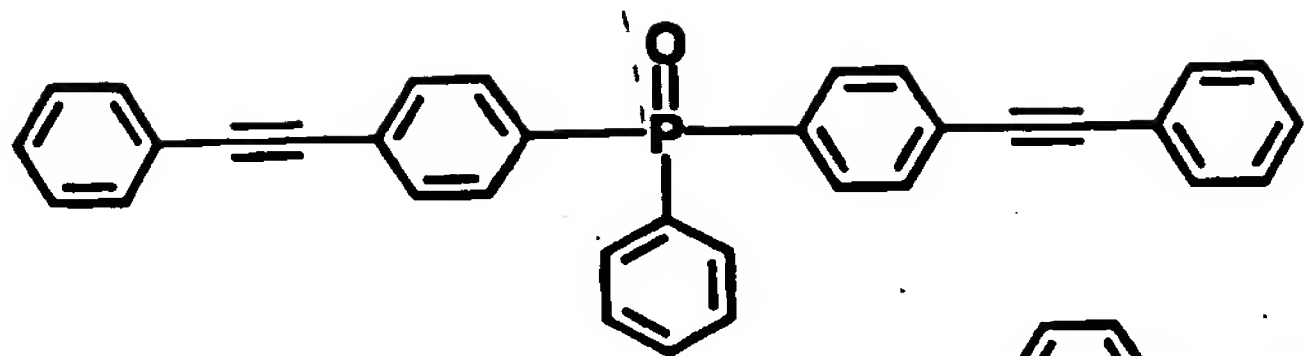


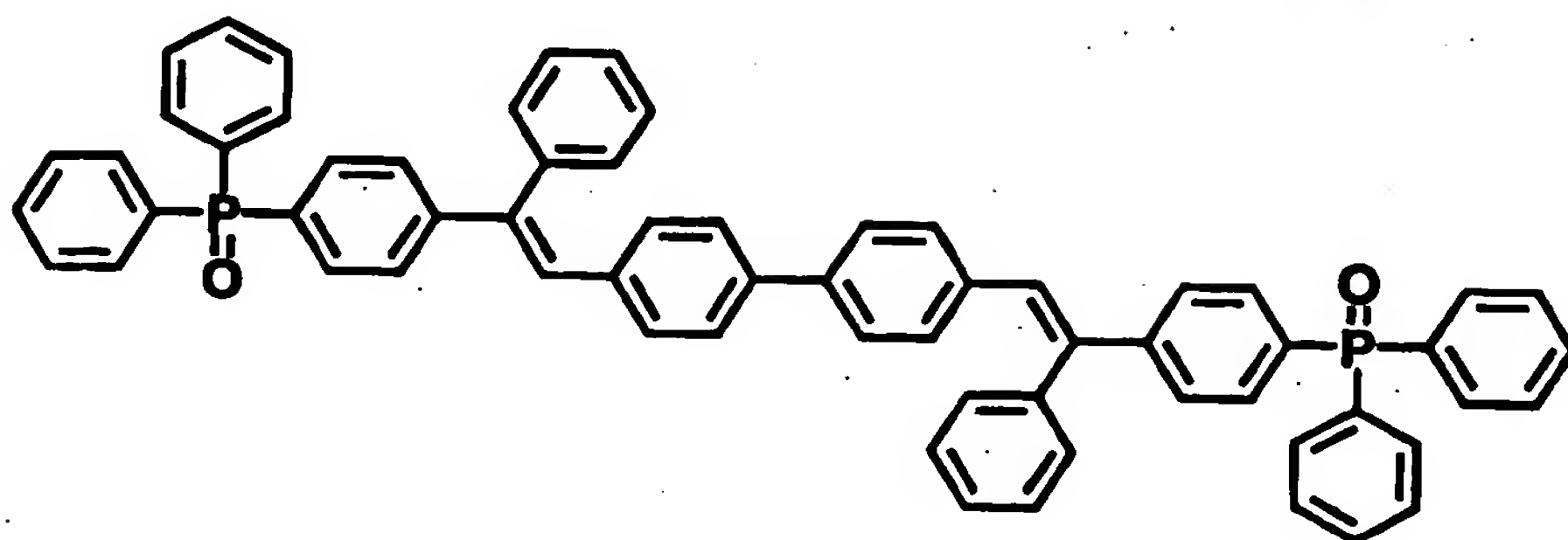
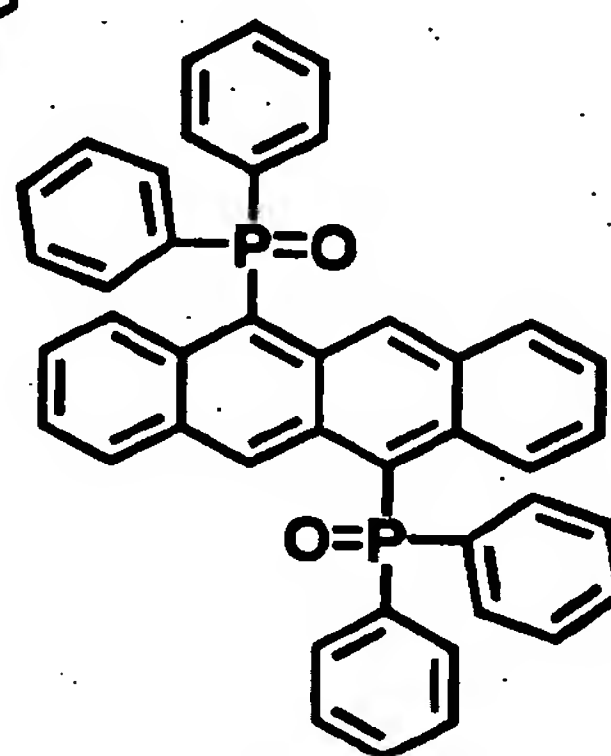
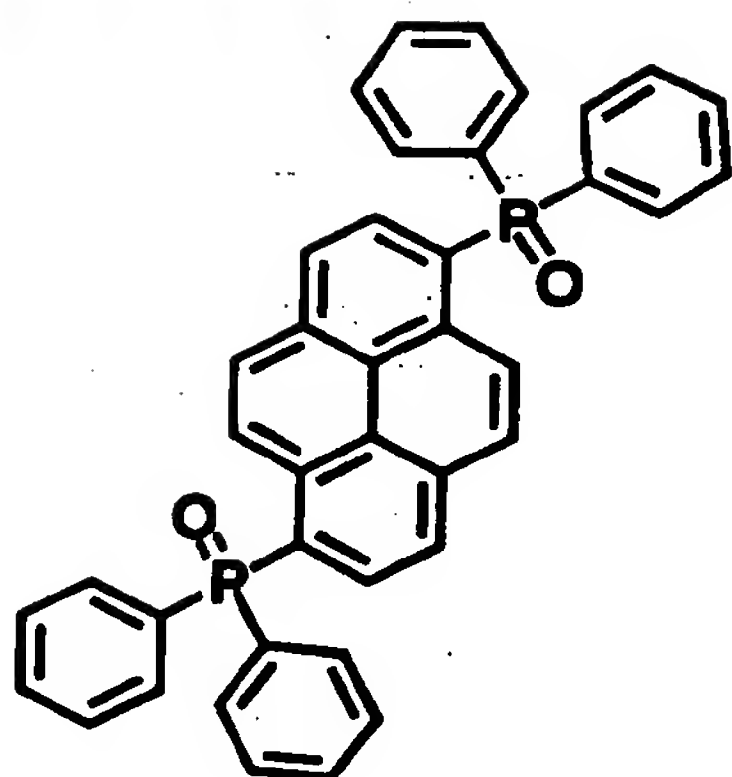
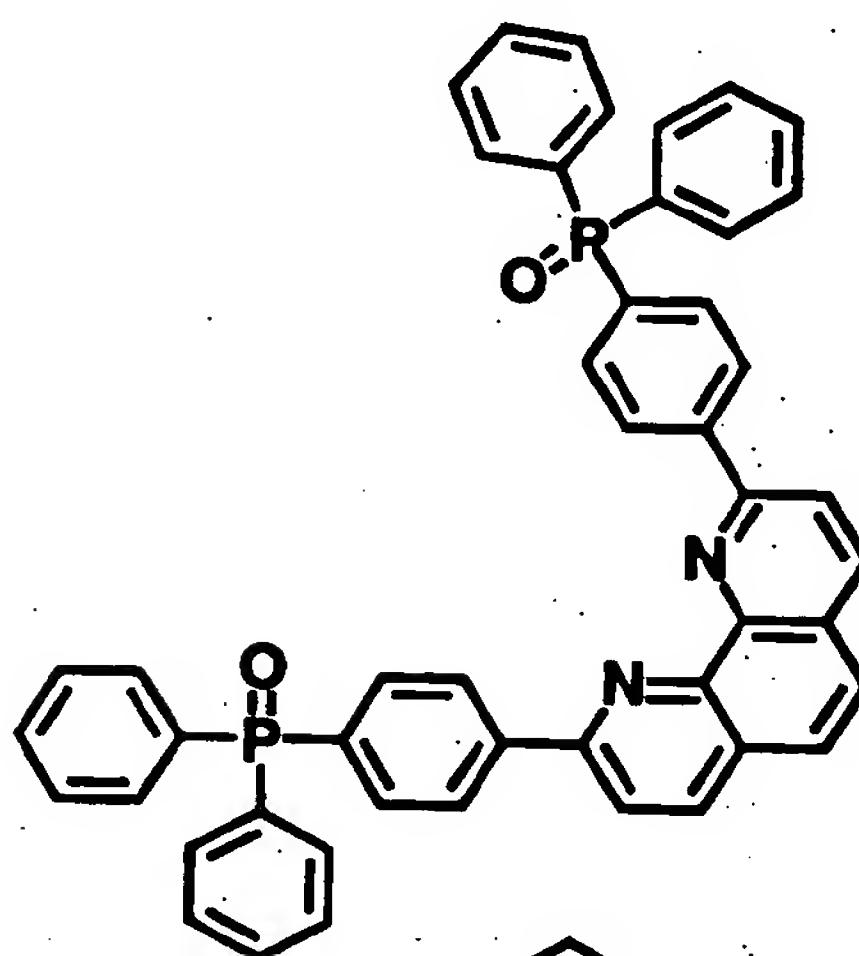
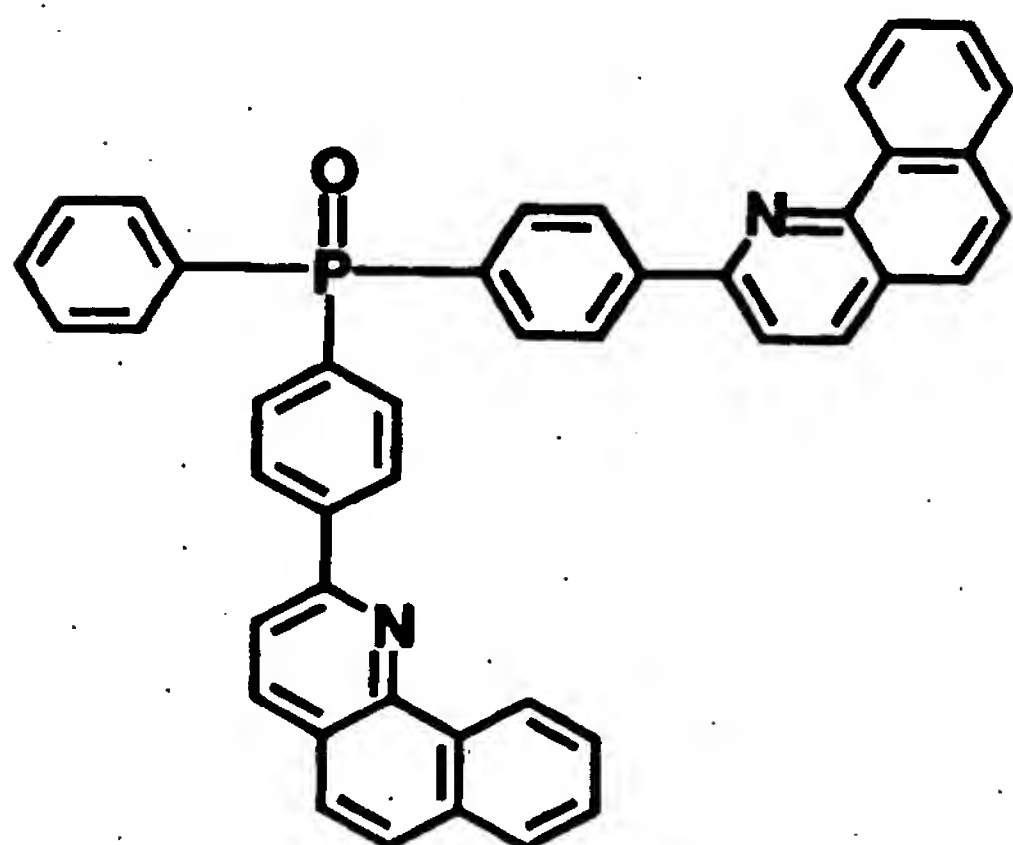
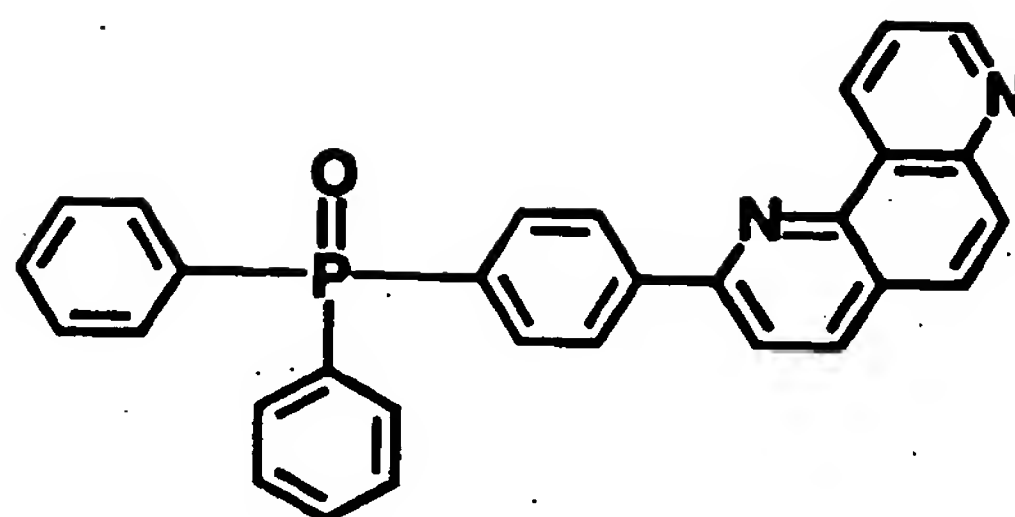
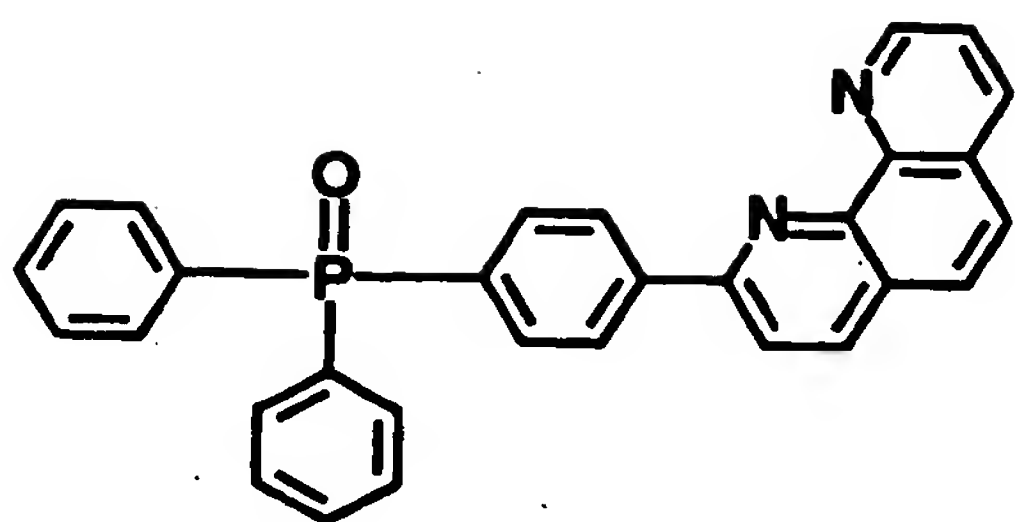












**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☒ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☒ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☒ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.